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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:

Z001 - Tar Impregnating Furnace
Z002 - Water Tower Furnace
Z003 - Shrink Wrap Oven
Z004 - Lab Testing Furnaces
Z005 - Press Hot Oil Tank
Z006 - T.I. Hot Oil Tank
Z007 - 250-gallon Diesel Storage Tank
Z008 - 250-gallon Gasoline Storage Tank
Z009 - 250-gallon Kerosene Storage Tank (BOF)
Z010 - 250-gallon Kerosene Storage Tank (Basic)
Z011 - 1000-gallon Liquid Propane Tank
Z012 - 1000-gallon Liquid Propane Tank
Z013 - 10,000-gallon Norlig Storage Tank
Z014 - 350 Hp Air Compressor
Z015 - 7500-gallon Diesel Storage Tank
Z016 - 15,000-gallon Diesel Storage Tank
Z017 - Castable Three Compartment Dryer
Z048 - BOF Batching and Mixing Furnace

Each insignificant emissions unit at this facility must comply with all State and federal regulations as well as any emissions limitations and/or control requirements contained within a Permit to Install for the emissions unit.
The following insignificant emissions units are located at this facility:

Z001 - Tar Impregnating Furnace
Z002 - Water Tower Furnace
Z003 - Shrink Wrap Oven
Z004 - Lab Testing Furnaces
Z005 - Press Hot Oil Tank
Z006 - T.I. Hot Oil Tank
Z007 - 250-gallon Diesel Storage Tank
Z008 - 250-gallon Gasoline Storage Tank
Z009 - 250-gallon Kerosene Storage Tank (BOF)
Z010 - 250-gallon Kerosene Storage Tank (Basic)
Z011 - 1000-gallon Liquid Propane Tank
Z012 - 1000-gallon Liquid Propane Tank
Z013 - 10,000-gallon Norlig Storage Tank
Z014 - 350 Hp Air Compressor
Z015 - 7500-gallon Diesel Storage Tank
Z016 - 15,000-gallon Diesel Storage Tank
Z017 - Castable Three Compartment Dryer
Z048 - BOF Batching and Mixing Furnace

Each insignificant emissions unit at this facility must comply with all 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: 0215010014 Emissions Unit ID: F001 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Paved roadways and parking areas	OAC rule 3745-17-07 (B)(4)	No visible particulate emissions except for 6 minutes during any 60- minute period
	OAC rule 3745-17-08 (B), (B)(8), (B)(9)	Reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.b through A.2.f)

2. **Additional Terms and Conditions**

a. The paved roadways and parking areas that are covered by this permit and subject to the requirements of OAC rules 3745-17-07 and 3745-17- 08 are listed below:

(a)

Paved Roadways:
All paved roadways associated with the Administration building, main entrance and tar bonded and basic facilities

Paved Parking Areas:
Administration building and main entrance paved parking areas

b. The permittee shall employ reasonably available control measures on all paved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the paved roadways and parking areas by sweeping at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

c. The needed frequencies of implementation of the control measures shall be determined by the permittee's inspections pursuant to the monitoring section of this permit. Implementation of the control measures shall not be necessary for a paved roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above- mentioned applicable requirements. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.

d. The permittee shall promptly remove, in such a manner as to minimize or prevent resuspension, earth and/or other material from paved streets onto which such material has been deposited by trucking or

earth moving equipment or erosion by water or other means.

e. Open-bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times if the control measure is necessary for the materials being transported.

f. Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-17-08.

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II. **Operational Restrictions**

1. None

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

1. Except as otherwise provided in this section, the permittee shall perform inspections of the paved roadways and parking areas in accordance with the following frequencies:

   Paved Roadways: Minimum Inspection Frequency:
   All paved roadways Daily
   associated with the
   Administration building,
   main entrance and tar
   bonded and basic facilities

   Paved Parking Areas: Minimum Inspection Frequency:
   Administration building Daily
   and main entrance
   paved parking areas

2. The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above-identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.

3. The permittee may, upon receipt of written approval from the Ohio EPA Northeast District Office, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.

4. The permittee shall maintain records of the following information:

   a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;

   b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;

   c. the dates the control measures were implemented; and

   d. on a calendar quarter basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

   The information required in 4.d. shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

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IV. **Reporting Requirements**

1. The permittee shall submit deviation reports that identify any of the following occurrences:

   a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and

   b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.

2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

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V. **Testing Requirements**

1. Compliance with the emission limitation for the paved roadways and parking areas identified above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources," as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0215010014 Emissions Unit ID: F001 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.

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

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: 0215010014 Emissions Unit ID: P001 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Tar impregnation of refractory brick.	OAC rule 3745-17-11(B)(1)	8.56 pounds per hour of particulate emissions.
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions shall not exceed twenty percent opacity, as a six-minute average, except as provided by rule.
	OAC rule 3745-21-07(G)(2)	See Additional Terms and Conditions A.I.2.a.

2. **Additional Terms and Conditions**

a. This emissions unit shall not employ any organic liquids which are photochemically reactive materials, as defined in OAC rule 3745-21-01(C)(5).

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II. **Operational Restrictions**

1. None

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

1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

   a. the color of the emissions;
   b. whether the emissions are representative of normal operations;
   c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
   d. the total duration of any visible emission incident; and
   e. any corrective actions taken to eliminate the visible emissions.

2. For each liquid organic material employed, the permittee shall document whether or not the material is a photochemically reactive material, as defined in OAC rule 3745-21-01(C)(5).

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IV. **Reporting Requirements**

1. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Ohio EPA, Northeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

2. The permittee shall submit deviation (excursion) reports which include an identification of each day during

which any photochemically reactive materials were employed.

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V. **Testing Requirements**

1. Compliance with the allowable emission limitations in Section A.I.1 of theses terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation:
8.56 pounds per hour of particulate emissions

Applicable Compliance Method:
If required by the Ohio EPA, compliance with the allowable particulate emission limit shall be determined in accordance with the following method(s): Methods 1 - 5 of 40 CFR Part 60, Appendix A.

b. Emission Limitation:
20% opacity for visible particulate emissions

Applicable Compliance Method:
If required by the Ohio EPA, compliance with the allowable visible particulate emission limit shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1), using the methods and procedures specified in U.S. EPA reference method 9.

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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.

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

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: 0215010014 Emissions Unit ID: P002 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
BOF Tempering Oven	OAC rule 3745-17-11(B)(1)	10.0 pounds per hour of particulate emissions. See Additional Terms and Conditions A.I.2.b.
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions shall not exceed twenty percent opacity, as a six-minute average, except as provided by rule.
	OAC rule 3745-18-06(E)(2)	140.3 pounds per hour of sulfur dioxide emissions. See Additional Terms and Conditions A.I.2.a. and section A.III.3.

2. **Additional Terms and Conditions**

a. This emissions unit processes nonclay refractory brick that is produced with chromite ore and periclase materials. The maximum uncontrolled emission rate of SO2 cannot exceed the allowable emission limit based on the type of materials used in the refractory brick processed in this emissions unit.

b. The uncontrolled mass rate of particulate emissions (PE) from this emissions unit is less than 10 pounds per hour, based on emission factor calculations. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, based on Table I of OAC rule 3745-17-11, the allowable PE limitation is greater than 10 pounds of PE per hour. However, to ensure that Figure II will not be applicable, the PE from this emissions unit shall be less than 10 pounds per hour.

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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.

2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

   a. the color of the emissions;
   b. whether the emissions are representative of normal operations;
   c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
   d. the total duration of any visible emission incident; and
   e. any corrective actions taken to eliminate the visible emissions.

3. No monitoring or record keeping is required for the SO2 emission limit for this emissions unit because the maximum uncontrolled emission rate of SO2 cannot exceed the allowable emission limit.

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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.

2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Ohio EPA Northeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

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V. **Testing Requirements**

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

   a. Emission Limitation:
      10.0 pounds per hour of particulate emissions

      Applicable Compliance Method:
      If required by the Ohio EPA, compliance with the allowable particulate emission limit shall be determined in accordance with the following method(s): Methods 1 - 5 of 40 CFR Part 60, Appendix A.

   b. Emission Limitation:
      20% opacity for visible particulate emissions

      Applicable Compliance Method:
      If required by the Ohio EPA, compliance with the allowable visible particulate emission limit shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1), using the methods and procedures specified in U.S. EPA reference method 9.

   c. Emission Limitation:
      140.3 pounds per hour of sulfur dioxide

      Applicable Compliance Method:
      Compliance shall be based on the emission factors outlined in AP-42, Section 1.4 (Natural Gas Combustion - Fifth Edition, 3/98), using the following equation:

      E (lb/hr) = (EF / 1,020 Btu/scf) * Max. rated capacity, MMBtu/hr

      Where:
      EF = emission factor, 0.6 lb SO2 per million scf
      Max. rated capacity = Maximum rated burner capacity of the oven (11.6 MMBtu/hr)

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0215010014 Emissions Unit ID: P002 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.

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

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: 0215010014 Emissions Unit ID: P003 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
#1 Tunnel Kiln	OAC rule 3745-17-11(B)(1)	7.58 pounds per hour of particulate emissions.
	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed twenty percent opacity, as a six-minute average, except as provided by rule.
	OAC rule 3745-18-06(E)(2)	55.4 pounds per hour of sulfur dioxide emissions. See Additional Terms and Conditions A.I.2.a. and section A.III.3.

2. **Additional Terms and Conditions**

a. This emissions unit processes nonclay refractory brick that is produced with chromite ore and periclase materials. Emission testing of this emissions unit performed in January, 1996 produced an average SO2 emission rate of 1.30 pounds per hour. The maximum uncontrolled emission rate of SO2 cannot exceed the allowable emission limit based on the type of materials used in the refractory brick processed in this emissions unit.

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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.

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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 perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

3. No monitoring or record keeping is required for the SO2 emission limit for this emissions unit because the maximum uncontrolled emission rate of SO2 cannot exceed the allowable emission limit.

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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 submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Ohio EPA Northeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

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V. **Testing Requirements**

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

a. Emission Limitation:
7.58 pounds per hour of particulate emissions

Applicable Compliance Method:
If required by the Ohio EPA, compliance with the allowable particulate emission limit shall be determined

in accordance with the following method(s): Methods 1 - 5 of 40 CFR Part 60, Appendix A.

b. Emission Limitation:
20% opacity for visible particulate emissions

Applicable Compliance Method:
If required by the Ohio EPA, compliance with the allowable visible particulate emission limit shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1), using the methods and procedures specified in U.S. EPA reference method 9.

c. Emission Limitation:
55.4 pounds per hour of sulfur dioxide

Applicable Compliance Method:
If required by the Ohio EPA, compliance with the allowable SO2 emission limit shall be determined in accordance with the following method(s): Methods 1 - 4 and 6 of 40 CFR Part 60, Appendix A.

Compliance shall be based on the emission factors outlined in AP-42, Section 1.3 (Fuel Oil Combustion - Fifth Edition, 9/98) or Section 1.4 (Natural Gas Combustion - Fifth Edition, 3/98), using the following equation:

For #2 Fuel Oil Combustion:
E (lb/hr) = EF * Max. hourly usage rate of fuel oil, 45.9 gal/hr

Where:
EF = Emission factor, 142S lb SO2 per 1,000 gallons of fuel oil burned
S = weight % of sulfur in the oil

For Natural Gas Combustion:
E (lb/hr) = (EF / 1,020 Btu/scf) * Max. rated capacity, MMBtu/hr

Where:
EF = emission factor, 0.6 lb SO2 per million scf
Max. rated capacity = Maximum rated burner capacity of the oven (6.6 MMBtu/hr)

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0215010014 Emissions Unit ID: P003 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.

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

2. **Additional Terms and Conditions**

1. None

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II. **Operational Restrictions**

1. None

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

1. None

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IV. **Reporting Requirements**

1. None

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V. **Testing Requirements**

1. None

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0215010014 Emissions Unit ID: P004 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
#2 Tunnel Kiln	OAC rule 3745-17-11(B)(1)	10.0 pounds per hour of particulate emissions. See Additional Terms and Conditions A.I.2.b.
	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed twenty percent opacity, as a six-minute average, except as provided by rule.
	OAC rule 3745-18-06(E)(2)	75.9 pounds per hour of sulfur dioxide emissions. See Additional Terms and Conditions A.I.2.a. and section A.III.3.

2. **Additional Terms and Conditions**

a. This emissions unit processes nonclay refractory brick that is produced with chromite ore and periclase materials. Emission testing of this emissions unit performed in January, 1996 produced an average SO2 emission rate of 4.95 pounds per hour. The maximum uncontrolled emission rate of SO2 cannot exceed the allowable emission limit based on the type of materials used in the refractory brick processed in this emissions unit.

b. The uncontrolled mass rate of particulate emissions (PE) from this emissions unit is less than 10 pounds per hour, based on stack test data. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, based on Table I of OAC rule 3745-17-11, the allowable PE limitation is greater than 10 pounds of PE per hour. However, to ensure that Figure II will not be applicable, the PE from this emissions unit shall be less than 10 pounds per hour.

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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.

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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 perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

   a. the color of the emissions;
   b. whether the emissions are representative of normal operations;
   c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
   d. the total duration of any visible emission incident; and
   e. any corrective actions taken to eliminate the visible emissions.

3. No monitoring or record keeping is required for the SO2 emission limit for this emissions unit because the maximum uncontrolled emission rate of SO2 cannot exceed the allowable emission limit.

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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 submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Ohio EPA Northeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

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V. **Testing Requirements**

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

   a. Emission Limitation:
      10.0 pounds per hour of particulate emissions

      Applicable Compliance Method:
      If required by the Ohio EPA, compliance with the allowable particulate emission limit shall be determined in accordance with the following method(s): Methods 1 - 5 of 40 CFR Part 60, Appendix A.

   b. Emission Limitation:
      20% opacity for visible particulate emissions

      Applicable Compliance Method:
      If required by the Ohio EPA, compliance with the allowable visible particulate emission limit shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1), using the methods and procedures specified in U.S. EPA reference method 9.

   c. Emission Limitation:
      75.9 pounds per hour of sulfur dioxide

      Applicable Compliance Method:
      If required by the Ohio EPA, compliance with the allowable SO2 emission limit shall be determined in accordance with the following method(s): Methods 1 - 4 and 6 of 40 CFR Part 60, Appendix A.

      Compliance shall be based on the emission factors outlined in AP-42, Section 1.3 (Fuel Oil Combustion - Fifth Edition, 9/98) or Section 1.4 (Natural Gas Combustion - Fifth Edition, 3/98), using the following equation:

      For #2 Fuel Oil Combustion:
      E (lb/hr) = EF * Max. hourly usage rate of fuel oil, 194.5 gal/hr

Where:
EF = Emission factor, 142S lb SO2 per 1,000 gallons of fuel oil burned
S = weight % of sulfur in the oil

For Natural Gas Combustion:
E (lb/hr) = (EF / 1,020 Btu/scf) * Max. rated capacity, MMBtu/hr

Where:
EF = emission factor, 0.6 lb SO2 per million scf
Max. rated capacity = Maximum rated burner capacity of the oven (28 MMBtu/hr)

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0215010014 Emissions Unit ID: P004 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.

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

2. **Additional Terms and Conditions**

1. None

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II. **Operational Restrictions**

1. None

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

1. None

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IV. **Reporting Requirements**

1. None

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V. **Testing Requirements**

1. None

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0215010014 Emissions Unit ID: P005 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Brick drying (tunnel dryers)	OAC rule 3745-17-11(B)(1)	10.0 pounds per hour of particulate emissions. See Additional Terms and Conditions A.I.2.b.
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions shall not exceed twenty percent opacity, as a six-minute average, except as provided by rule.
	OAC rule 3745-18-06(E)(2)	245.2 pounds per hour of sulfur dioxide emissions. See Additional Terms and Conditions A.I.2.a. and section A.III.3.

2. **Additional Terms and Conditions**

a. This emissions unit processes nonclay refractory brick that is produced with chromite ore and periclase materials. The maximum uncontrolled emission rate of SO2 cannot exceed the allowable emission limit based on the type of materials used in the refractory brick processed in this emissions unit.

b. The uncontrolled mass rate of particulate emissions (PE) from this emissions unit is less than 10 pounds per hour, based on stack test data. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, based on Table I of OAC rule 3745-17-11, the allowable PE limitation is greater than 10 pounds of PE per hour. However, to ensure that Figure II will not be applicable, the PE from this emissions unit shall be less than 10 pounds per hour.

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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.

2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

3. No monitoring or record keeping is required for the SO2 emission limit for this emissions unit because the maximum uncontrolled emission rate of SO2 cannot exceed the allowable emission limit.

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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.

2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Ohio EPA Northeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

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V. **Testing Requirements**

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

a. Emission Limitation:
10.0 pounds per hour of particulate emissions

Applicable Compliance Method:
If required by the Ohio EPA, compliance with the allowable particulate emission limit shall be determined in accordance with the following method(s): Methods 1 - 5 of 40 CFR Part 60, Appendix A.

b. Emission Limitation:
20% opacity for visible particulate emissions

Applicable Compliance Method:
If required by the Ohio EPA, compliance with the allowable visible particulate matter emission limit shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1), using the methods and procedures specified in U.S. EPA reference method 9.

c. Emission Limitation:
245.2 pounds per hour of sulfur dioxide

Applicable Compliance Method:
Compliance shall be based on the emission factors outlined in AP-42, Section 1.4 (Natural Gas Combustion - Fifth Edition, 3/98), using the following equation:

E (lb/hr) = (EF / 1,020 Btu/scf) * Max. rated capacity, MMBtu/hr

Where:
EF = emission factor, 0.6 lb SO2 per million scf
Max. rated capacity = Maximum rated burner capacity of the oven (17.2 MMBtu/hr)

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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.

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

2. **Additional Terms and Conditions**

1. None

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II. **Operational Restrictions**

1. None

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

1. None

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IV. **Reporting Requirements**

1. None

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V. **Testing Requirements**

1. None

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0215010014 Emissions Unit ID: P017 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Mixing and sacking of bulk and bag products equipped with 2 baghouses (DC-3 and DC-13) for particulate control.	OAC rule 3745-17-11(B)(1)	10.0 pounds per hour of particulate emissions. See Additional Terms and Conditions A.I.2.a.

OAC rule 3745-17-07(A)(1)	Visible particulate emissions shall not exceed 20% opacity as a six-minute average, except as provided by rule.

2. **Additional Terms and Conditions**

a. The uncontrolled mass rate of particulate emissions (PE) from this emissions unit is less than 10 pounds per hour, based on emission factor calculations. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, based on Table I of OAC rule 3745-17-11, the allowable PE limitation is greater than 10 pounds of PE per hour. However, to ensure that Figure II will not be applicable, the PE from this emissions unit shall be less than 10 pounds per hour.

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II. **Operational Restrictions**

1. The pressure drop across each of the baghouses (DC-3 and DC-13) shall be maintained within the range of 4 to 6 inches of water while the emissions unit is in operation.

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

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across each of the baghouses (DC-3 and DC-13) while the emissions unit is in operation. The monitoring equipment shall be 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 each of the baghouses on a daily 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 baghouses did not comply with the allowable range specified above.

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V. **Testing Requirements**

1. Emission Limitation:
10.0 pounds per hour of particulate emissions

Applicable Compliance Method:
U.S. EPA Reference Methods 1-5 of 40 CFR Part 60, Appendix A

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 3 months after issuance of the permit and within 6 months prior to permit renewal.

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

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Method 5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA, Northeast District Office.

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 Ohio EPA, Northeast District Office.

A particulate emissions test also shall be conducted at the inlet of the control devices to determine the uncontrolled mass rate of emissions for the emissions unit, for purposes of applying Figure II of OAC rule 3745-17-11. For this testing, Method 5 of 40 CFR Part 60, Appendix A shall be employed.
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 appropriate Ohio EPA, Northeast 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.

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 appropriate Ohio EPA, Northeast District Office.

2. Emission Limitation:
20% opacity for visible particulate emissions

Applicable Compliance Method:
If required by the Ohio EPA, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures specified in U.S. EPA reference method 9.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0215010014 Emissions Unit ID: P017 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.

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

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: 0215010014 Emissions Unit ID: P045 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Screening and crushing operations of chrome raw materials equipped with 5 baghouses (DC-8S, DC-11, DC-24, DC-28 and DC-32) for particulate control.	OAC rule 3745-31-05(A)(3) PTI No. 17-442 (See Additional Terms and Conditions A.I.2.c)	0.01 grain per dscf and 5.0 tons per year of particulate emissions (for only Screens 1 and 3).
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions shall not exceed 20% opacity as a six-minute average, except as provided by rule.
	OAC rule 3745-17-07(B)	Visible emissions of any fugitive dust shall not exceed 20% opacity, as a three-minute average.
	OAC rule 3745-17-08(B)	Reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust. (See Section A.I.2.a)
	OAC rule 3745-17-11(B)(1)	30.5 pounds per hour of particulate emissions. See Additional Terms and Conditions A.I.2.b.

2. **Additional Terms and Conditions**

a. The collection efficiency of the air pollution capture hoods for this emissions unit shall be sufficient to minimize or eliminate visible particulate emissions of fugitive dust at all points of capture. The permittee shall maintain all hoods and enclosures in good operating condition. The collection efficiency shall be considered adequate if visible emissions of fugitive dust do not exceed 20% opacity, as a three-minute average.

b. The uncontrolled mass rate of particulate emissions (PE) from this emissions unit is greater than 10 pounds per hour, based on emission factor calculations. The allowable mass rate of emission of particulate matter based on Figure II of OAC rule 3745-17-11 is estimated to be 50 pounds per hour. The allowable mass rate of emission of particulate matter based on Table I of OAC rule 3745-17-11 is estimated to be 30.5 pounds per hour. Therefore, the more stringent value of 30.5 pounds per hour of PE shall be set as the allowable mass emission rate for this emissions unit.

c. This PTI is for a modification to the screening and crushing operations for chrome raw materials, which consists of the installation of a Mogenson sizer (Screens 1 and 3) equipped with a baghouse (DC-11) for particulate control.

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II. **Operational Restrictions**

1. The pressure drop across each of the baghouses (DC-8S, DC-11, DC-24, DC-28 and DC-32) shall be maintained within the range of 4 to 6 inches of water while the emissions unit is in operation.

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

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across each of the baghouses (DC-8S, DC-11, DC-24, DC-28 and DC-32) while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across each of the baghouses on a daily basis.

2. The permittee shall perform monthly inspections on all capture hoods and enclosures to ensure each hood and enclosure are in good operating condition.

3. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust from this emissions unit. The presence or absence of any visible emissions of fugitive dust shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

   a. the color of the emissions;
   b. whether the emissions are representative of normal operations;
   c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
   d. the total duration of any visible emission incident; and
   e. any corrective actions taken to eliminate the visible emissions.

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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 baghouses did not comply with the allowable range specified above.

2. The permittee shall submit deviation (excursion) reports that identify all periods of time during which the capture hoods and/or enclosures were not maintained in good operating condition.

3. The permittee shall submit semiannual written reports which (a) identify all days during which any visible emissions of fugitive dust were observed from this emissions unit and (b) describe any corrective actions taken to eliminate the visible emissions of fugitive dust. These reports shall be submitted to the Ohio EPA, Northeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

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V. **Testing Requirements**

1. Emission Limitation:
   30.5 pounds per hour of particulate emissions (baghouses DC-8S, DC-11, DC-24, DC-28 and DC-32)
   0.01 grain per dscf (baghouse DC-11)

   Applicable Compliance Method:
   U.S. EPA Reference Methods 1-5 of 40 CFR Part 60, Appendix A

   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 3 months after issuance of the permit and within 6 months prior to permit renewal.

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

   c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Method 5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA, Northeast District Office.

   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 Ohio EPA, Northeast District Office.

   A particulate emissions test also shall be conducted at the inlet of the control devices to determine the uncontrolled mass rate of emissions for the emissions unit, for purposes of applying Figure II of OAC rule 3745-17-11. For this testing, Method 5 of 40 CFR Part 60, Appendix A shall be employed.
   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 appropriate Ohio EPA, Northeast 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.

   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 appropriate Ohio EPA, Northeast District Office.

2. Emission Limitation:
5.0 tons per year of particulate emissions

Applicable Compliance Method:
This limit is based on the allowable hourly emission limit multiplied by the maximum possible operating hours and divided by 2,000 (pounds per ton). Therefore, provided that compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

3. Emission Limitation:
20% opacity for stack visible particulate emissions

Applicable Compliance Method:
If required by the Ohio EPA, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures specified in U.S. EPA reference method 9.

4. Emission Limitation:
20% opacity for visible emissions of fugitive dust

Applicable Compliance Method:
Compliance shall be determined by visible emission evaluations performed in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0215010014 Emissions Unit ID: P045 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.

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

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: 0215010014 Emissions Unit ID: P046 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Screening and crushing operations of periclase raw materials equipped with 4 baghouses (DC-8N, DC-12, DC-30 and DC-31) for particulate control.	OAC rule 3745-31-05(A)(3) PTI No. 17-442 (See Additional Terms and Conditions A.I.2.c)	0.01 grain per dscf and 2.5 tons per year of particulate emissions (for only Screens 2 and 4).
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions shall not exceed 20% opacity as a six-minute average, except as provided by rule.
	OAC rule 3745-17-07(B)	Visible emissions of any fugitive dust shall not exceed 20% opacity, as a three-minute average.
	OAC rule 3745-17-08(B)	Reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (See Section A.I.2.a)
	OAC rule 3745-17-11(B)(1)	35.4 pounds per hour of particulate emissions. See Additional Terms and Conditions A.I.2.b.

2. **Additional Terms and Conditions**

a. The collection efficiency of the air pollution capture hoods for this emissions unit shall be sufficient to minimize or eliminate visible particulate emissions of fugitive dust at all points of capture. The permittee shall maintain all hoods and enclosures in good operating condition. The collection efficiency shall be considered adequate if visible emissions of fugitive dust do not exceed 20% opacity, as a three-minute average.

b. The uncontrolled mass rate of particulate emissions (PE) from this emissions unit is greater than 10 pounds per hour, based on emission factor calculations. The allowable mass rate of emission of particulate matter based on Figure II of OAC rule 3745-17-11 is estimated to be 50 pounds per hour. The allowable mass rate of emission of particulate matter based on Table I of OAC rule 3745-17-11 is estimated to be 35.4 pounds per hour. Therefore, the more stringent value of 35.4 pounds per hour of PE shall be set as the allowable mass emission rate for this emissions unit.

c. This PTI is for a modification to the screening and crushing operations for periclase raw materials, which

consists of the installation a Mogenson sizer (Screens 2 and 4) equipped with a baghouse (DC-12) for particulate control.

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II. **Operational Restrictions**

1. The pressure drop across each of the baghouses (DC-8N, DC-12, DC-30 and DC-31) shall be maintained within the range of 4 to 6 inches of water while the emissions unit is in operation.

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

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across each of the baghouses (DC-8N, DC-12, DC-30 and DC-31) while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across each of the baghouses on a daily basis.

2. The permittee shall perform monthly inspections on all capture hoods and enclosures to ensure each hood and enclosure are in good operating condition.

3. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust from this emissions unit. The presence or absence of any visible emissions of fugitive dust shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

   a. the color of the emissions;
   b. whether the emissions are representative of normal operations;
   c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
   d. the total duration of any visible emission incident; and
   e. any corrective actions taken to eliminate the visible emissions.

4. The permittee shall maintain annual records of the operating hours for this emissions unit.

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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 baghouses did not comply with the allowable range specified above.

2. The permittee shall submit deviation (excursion) reports that identify all periods of time during which the capture hoods and/or enclosures were not maintained in good operating condition.

3. The permittee shall submit semiannual written reports which (a) identify all days during which any visible emissions of fugitive dust were observed from this emissions unit and (b) describe any corrective actions taken to eliminate the visible emissions of fugitive dust. These reports shall be submitted to the Ohio EPA, Northeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

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V. **Testing Requirements**

1. Emission Limitation:
   35.4 pounds per hour of particulate emissions (baghouses DC-8N, DC-12, DC-30 and DC-31)
   0.01 gr/dscf of particulate matter (baghouse DC-12)

   Applicable Compliance Method:
   U.S. EPA Reference Methods 1-5 of 40 CFR Part 60, Appendix A

   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 3 months after issuance of the permit and within 6 months prior to permit renewal.

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

   c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Method 5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA, Northeast District Office.

   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 Ohio EPA, Northeast District Office.

   A particulate emissions test also shall be conducted at the inlet of the control devices to determine the

uncontrolled mass rate of emissions for the emissions unit, for purposes of applying Figure II of OAC rule 3745-17-11. For this testing, Method 5 of 40 CFR Part 60, Appendix A shall be employed.
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 appropriate Ohio EPA, Northeast 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.

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 appropriate Ohio EPA, Northeast District Office.

2. Emission Limitation:
2.5 tons per year of particulate emissions

Applicable Compliance Method:
E (ton/yr) = (((0.01 gr/dscf * Gas flow rate, cfm * 60 min/hr) / 7,000 gr/lb) * Annual hours of operation, hr/yr) / 2,000 lb/ton

Where:
Gas flow rate = Gas flow rate of the baghouse (8,514 cubic feet per minute)
Annual hours of operation = The annual number of hours this emissions unit operated, in hours per year

3. Emission Limitation:
20% opacity for stack visible particulate emissions

Applicable Compliance Method:
If required by the Ohio EPA, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures specified in U.S. EPA reference method 9.

4. Emission Limitation:
20% opacity for visible emissions of fugitive dust

Applicable Compliance Method:
Compliance shall be determined by visible emission evaluations performed in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

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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.

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

2. **Additional Terms and Conditions**

1. None

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II. **Operational Restrictions**

1. None

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

1. None

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IV. **Reporting Requirements**

1. None

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V. **Testing Requirements**

1. None

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0215010014 Emissions Unit ID: P047 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Batching, mixing and pressing of basic and lignosite resin bond products equipped with 5 baghouses (DC-2, DC-15, DC-23, DC-35 and DC-37) for particulate control.	OAC rule 3745-17-11(B)(1)	33.5 pounds per hour of particulate emissions. See Additional Terms and Conditions A.I.2.b.
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions shall not exceed 20% opacity, as a six-minute average, except as provided by rule.
	OAC rule 3745-21-07(G)(2)	See Additional Terms and Conditions A.I.2.a.
	OAC rule 3745-31-05(A)(3) PTI No. 17-416 (See Additional Terms and Conditions A.I.2.c)	3 pounds per hour, 15 pounds per day and 2.74 tons per year of organic compound emissions

2. **Additional Terms and Conditions**

a. This emissions unit shall not employ any organic liquids which are photochemically reactive materials, as defined in OAC rule 3745-21-01(C)(5).

b. The uncontrolled mass rate of particulate emissions (PE) from this emissions unit is greater than 10 pounds per hour, based on emission factor calculations. The allowable mass rate of emission of particulate matter based on Figure II of OAC rule 3745-17-11 is estimated to be 34.9 pounds per hour. The allowable mass rate of emission of particulate matter based on Table I of OAC rule 3745-17-11 is estimated to be 33.5 pounds per hour. Therefore, the more stringent value of 33.5 pounds per hour of PE shall be set as the allowable mass emission rate for this emissions unit.

c. This PTI is for press 6 batching, mixing and pressing of basic and phenolic resin bond products, which employ 2 baghouses (DC-35 and DC-37) for particulate control.

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II. **Operational Restrictions**

1. The pressure drop across each of the baghouses (DC-2, DC-15, DC-23, DC-35 and DC-37) shall be maintained within the range of 4 to 6 inches of water while the emissions unit is in operation.

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

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouses (DC-2, DC-15, DC-23, DC-35 and DC-37) while the emissions unit is in operation. The monitoring equipment shall be 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 baghouses on a daily basis.

2. For each liquid organic material employed, the permittee shall document whether or not the material is a photochemically reactive material, as defined in OAC rule 3745-21-01(C)(5).

3. The permittee shall maintain the following records on a daily basis for this emissions unit:

a. The operating hours of the emissions unit.

b. The total organic compound emissions (see equation in A.V.4).

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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 baghouses did not comply with the allowable range specified above.

2. The permittee shall submit deviation (excursion) reports which include an identification of each day during which any photochemically reactive materials were employed.

3. The permittee shall submit deviation (excursion) reports which include an identification of each day during which the organic compound emissions exceeded 15 pounds per day and the actual organic compound emissions for each such day.

4. The permittee shall submit annual reports by January 31 of each year. Each annual report shall specify the annual OC emissions for the preceding calendar year, determined using the equation provided in section A.V.5 of this permit.

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V. **Testing Requirements**

1. Emission Limitation:
33.5 pounds per hour of particulate emissions

Applicable Compliance Method:
U.S. EPA Reference Methods 1-5 of 40 CFR Part 60, Appendix A

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 3 months after issuance of the permit and within 6 months prior to permit renewal.

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

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass

emission rate(s): Method 5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA, Northeast District Office.

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 Ohio EPA, Northeast District Office.

A particulate emissions test also shall be conducted at the inlet of the control devices to determine the uncontrolled mass rate of emissions for the emissions unit, for purposes of applying Figure II of OAC rule 3745-17-11. For this testing, Method 5 of 40 CFR Part 60, Appendix A shall be employed.
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 appropriate Ohio EPA, Northeast 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.

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 appropriate Ohio EPA, Northeast District Office.

2. Emission Limitation:
20% opacity for visible particulate emissions

Applicable Compliance Method:
If required by the Ohio EPA, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures specified in U.S. EPA reference method 9.

3. Emission Limitation:
3 pounds per hour of OC emissions

Applicable Compliance Method:
U.S. EPA Reference Methods 1-4 and Method 25 or 25A of 40 CFR Part 60, Appendix A

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 3 months after issuance of the permit and within 6 months prior to permit renewal.

b. The emission testing shall be conducted to demonstrate compliance with the allowable hourly mass emission rate for organic compounds.

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Method 25 or 25A of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA, Northeast District Office.

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 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 appropriate Ohio EPA, Northeast 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.

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 appropriate Ohio EPA, Northeast District Office.

4. Emission Limitation:
15 pounds per day of OC emissions

Applicable Compliance Method:
E (lbs/day) = (hourly emission rate from stack test, lb/hr * daily hours of operation, hr/day)

5. Emission Limitation:
2.74 tons per year of OC emissions

Applicable Compliance Method:
E (tons/yr) = (allowable hourly emission rate, lbs/hr * annual hours of operation, hr/yr) / 2,000 lbs/ton

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0215010014 Emissions Unit ID: P047 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.

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

2. **Additional Terms and Conditions**

1. None

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II. **Operational Restrictions**

1. None

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

1. None

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IV. **Reporting Requirements**

1. None

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V. **Testing Requirements**

1. None

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0215010014 Emissions Unit ID: P048 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Batching, mixing and pressing of BOF products equipped with a baghouse (DC-P2) for particulate control.	OAC rule 3745-17-11(B)(1)	12.0 pounds per hour of particulate emissions. See Additional Terms and Conditions A.I.2.b.
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions shall not exceed 20% opacity, as a six-minute average, except as provided by rule.
	OAC rule 3745-21-07(G)(2)	See Additional Terms and Conditions A.I.2.a.

2. **Additional Terms and Conditions**

a. This emissions unit shall not employ any organic liquids which are photochemically reactive materials, as defined in OAC rule 3745-21-01(C)(5).

b. The uncontrolled mass rate of particulate emissions (PE) from this emissions unit is greater than 10 pounds per hour, based on emission factor calculations. The allowable mass rate of emission of particulate matter based on Figure II of OAC rule 3745-17-11 is estimated to be 13.1 pounds per hour. The allowable mass rate of emission of particulate matter based on Table I of OAC rule 3745-17-11 is estimated to be 12.0 pounds per hour. Therefore, the more stringent value of 12.0 pounds per hour of PE shall be set as the allowable mass emission rate for this emissions unit.

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II. **Operational Restrictions**

1. The pressure drop across the baghouse (DC-P2) shall be maintained within the range of 4 to 6 inches of water while the emissions unit is in operation.

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

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse (DC-P2) while the emissions unit is in operation. The monitoring equipment shall be 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 daily basis.

2. For each liquid organic material employed, the permittee shall document whether or not the material is a photochemically reactive material, as defined in OAC rule 3745-21-01(C)(5).

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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 baghouse did not comply with the allowable range specified above.

2. The permittee shall submit deviation (excursion) reports which include an identification of each day during which any photochemically reactive materials were employed.

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V. **Testing Requirements**

1. Emission Limitation:
12.0 pounds per hour of particulate emissions

Applicable Compliance Method:
U.S. EPA Reference Methods 1-5 of 40 CFR Part 60, Appendix A

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 3 months after issuance of the permit and within 6 months prior to permit renewal.

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

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Method 5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA, Northeast District Office.

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 Ohio EPA, Northeast District Office.

A particulate emissions test also shall be conducted at the inlet of the control devices to determine the uncontrolled mass rate of emissions for the emissions unit, for purposes of applying Figure II of OAC rule 3745-17-11. For this testing, Method 5 of 40 CFR Part 60, Appendix A shall be employed.
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 appropriate Ohio EPA, Northeast 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.

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 appropriate Ohio EPA, Northeast District Office.

2. Emission Limitation:
20% opacity for visible particulate emissions

Applicable Compliance Method:
If required by the Ohio EPA, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures specified in U.S. EPA reference method 9.

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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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control

Measures

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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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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Load-in and load-out of storage piles (see Section A.I.2.a for identification of storage piles)	OAC rule 3745-17-07(B)(6)	No visible emissions except for 13 minutes in any hour
	OAC rule 3745-17-08(B), (B)(6)	Reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.I.2.b, A.I.2.c and A.I.2.f)
Wind erosion from storage piles (see Section A.I.2.a for identification of storage piles)	OAC rule 3745-17-07(B)(6)	No visible emissions except for 13 minutes in any hour
	OAC rule 3745-17-08(B), (B)(6)	Reasonably available control measures that are sufficient to minimize or eliminate visible emissions of

fugitive dust (see Sections A.I.2.d through A.I.2.f)

2. **Additional Terms and Conditions**

a. The storage piles that are covered by this permit and subject to the requirements of OAC rules 3745-17-07 and 3745-17-08 are listed below:

(a)
Chrome ore, fused grain and rejected brick storage piles

b. The permittee shall employ reasonably available control measures on all load-in and load-out operations associated with the storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. The permittee shall process material with an inherently high moisture content or add water to the material at the load-in and load-out operations to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

c. Appropriate control measure(s) shall be employed for each load-in and load-out operation of each storage pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during any such operation until further observation confirms that use of the measure(s) is unnecessary.

d. The permittee shall employ reasonably available control measures for wind erosion from the surfaces of all storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. The permittee shall process material with an inherently high moisture content or add water to the material to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

e. Appropriate control measure(s) shall be employed for wind erosion from each pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Implementation of the control measure(s) shall not be necessary for a storage pile that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements.

f. Implementation of appropriate control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-17-08.

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II. **Operational Restrictions**

1. None

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

1. Except as otherwise provided in this section, the permittee shall perform inspections of each load-in operation at each storage pile in accordance with the following frequencies:

storage pile identification	minimum load-in inspection frequency
Chrome ore, fused grain and rejected brick storage piles	Daily

2. Except as otherwise provided in this section, the permittee shall perform inspections of each load-out operation at each storage pile in accordance with the following frequencies:

storage pile identification	minimum load-out inspection frequency
Chrome ore, fused grain and rejected brick storage piles	Daily

3. Except as otherwise provided in this section, the permittee shall perform inspections of the wind erosion from the pile surfaces associated with each storage pile in accordance with the following frequencies:

storage pile identification	minimum wind erosion inspection frequency
Chrome ore, fused grain and rejected brick storage piles	Daily

4. No inspection shall be necessary for wind erosion from the surface of a storage pile when the pile is covered with snow and/or ice and for any storage pile activity if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.

5. The purpose of the inspections is to determine the need for implementing the control measures specified in this permit for load-in and load-out of a storage pile, and wind erosion from the surface of a storage pile. The inspections shall be performed during representative, normal storage pile operating conditions.

6. The permittee may, upon receipt of written approval from the Ohio EPA, Northeast District Office, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.

7. The permittee shall maintain records of the following information:

a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;

b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;

c. the dates the control measures were implemented; and

d. on a calendar quarter basis, the total number of days the control measures were implemented and, for wind erosion from pile surfaces, the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measure(s).

The information required in 7.d. shall be kept separately for (i) the load-in operations, (ii) the load-out operations, and (iii) the pile surfaces (wind erosion), and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

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IV. **Reporting Requirements**

1. The permittee shall submit deviation reports that identify any of the following occurrences:

a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and

b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.

2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

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V. **Testing Requirements**

1. Compliance with the visible emission limitations for the storage piles identified above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17- 03.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0215010014 Emissions Unit ID: P051 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.

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

2. **Additional Terms and Conditions**

1. None

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II. **Operational Restrictions**

1. None

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

1. None

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IV. **Reporting Requirements**

1. None

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V. **Testing Requirements**

1. None

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0215010014 Emissions Unit ID: P905 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Basic primary crushing and screening of raw materials equipped with 4 baghouses (DC-5, DC-9, DC-10 and DC-20) for particulate control	OAC rule 3745-17-11(B)(1)	44.6 pounds per hour of particulate emissions. See Additional Terms and Conditions A.I.2.b.
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions shall not exceed 20% opacity, as a six-minute average, except as provided by

	rule.
OAC rule 3745-17-07(B)	Visible emissions of any fugitive dust shall not exceed 20% opacity, as a three minute average.
OAC rule 3745-17-08(B)	Reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust, see Section A.I.2.a.

2. **Additional Terms and Conditions**

a. The permittee shall minimize or eliminate visible emissions of fugitive dust through the employment of reasonably available control measures (RACM).

(a)

The permittee's employment of RACM shall include the use of a two-sided enclosure with a roof for railcar unloading.

Also, the collection efficiency of the air pollution capture hoods for this emissions unit shall be sufficient to minimize or eliminate visible particulate emissions of fugitive dust at all points of capture. The permittee shall maintain all hoods and enclosures in good operating condition. The collection efficiency shall be considered adequate if visible particulate emissions of fugitive dust do not exceed 20% opacity, as a three-minute average.

b. The uncontrolled mass rate of particulate emissions (PE) from this emissions unit is greater than 10 pounds per hour, based on emission factor calculations. The allowable mass rate of emission of particulate matter based on Figure II of OAC rule 3745-17-11 is estimated to be 50 pounds per hour. The allowable mass rate of emission of particulate matter based on Table I of OAC rule 3745-17-11 is estimated to be 44.6 pounds per hour. Therefore, the more stringent value of 44.6 pounds per hour of PE shall be set as the allowable mass emission rate for this emissions unit.

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II. **Operational Restrictions**

1. The pressure drop across each of the baghouses (DC-5, DC-9, DC-10 and DC-20) shall be maintained within the range of 4 to 6 inches of water while the emissions unit is in operation.

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

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across each of the baghouses (DC-5, DC-9, DC-10 and DC-20) while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across each of the baghouses on a daily basis.

2. The permittee shall perform monthly inspections on all capture hoods and enclosures to ensure each hood and enclosure are in good operating condition.

3. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust from this emissions unit. The presence or absence of any visible emissions of fugitive dust shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

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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 baghouses did not comply with the allowable range specified above.

2. The permittee shall submit deviation (excursion) reports that identify all periods of time during which the capture hoods and/or enclosures were not maintained in good operating condition.

3. The permittee shall submit semiannual written reports which (a) identify all days during which any visible emissions of fugitive dust were observed from this emissions unit and (b) describe any corrective actions taken to eliminate the visible emissions of fugitive dust. These reports shall be submitted to the Ohio EPA, Northeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

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V. **Testing Requirements**

1. Emission Limitation:
   44.6 pounds per hour of particulate emissions

   Applicable Compliance Method:
   U.S. EPA Reference Methods 1-5 of 40 CFR Part 60, Appendix A

   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 3 months after issuance of the permit and within 6 months prior to permit renewal.

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

   c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Method 5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA, Northeast District Office.

   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 Ohio EPA, Northeast District Office.

   A particulate emissions test also shall be conducted at the inlet of the control devices to determine the uncontrolled mass rate of emissions for the emissions unit, for purposes of applying Figure II of OAC rule 3745-17-11. For this testing, Method 5 of 40 CFR Part 60, Appendix A shall be employed.
   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 appropriate Ohio EPA, Northeast 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.

   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 appropriate Ohio EPA, Northeast District Office.

2. Emission Limitation:
   20% opacity for stack visible particulate emissions

   Applicable Compliance Method:
   If required by the Ohio EPA, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures specified in U.S. EPA reference method 9.

3. Emission Limitation:
   20% opacity for fugitive dust

   Applicable Compliance Method:
   Compliance shall be determined by visible emission evaluations performed in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

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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.

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

2. **Additional Terms and Conditions**

1. None

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II. **Operational Restrictions**

1. None

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

1. None

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IV. **Reporting Requirements**

1. None

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V. **Testing Requirements**

1. None

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0215010014 Emissions Unit ID: P906 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
BOF primary and secondary crushing and	OAC rule 3745-17-11(B)(1)	25.2 pounds per hour of particulate emissions. See

screening of BOF raw materials equipped with 2 baghouses (DC-P1 and DC-P5) for particulate control		Additional Terms and Conditions A.I.2.b.
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions shall not exceed 20% opacity, as a six-minute average, except as provided by rule.
	OAC rule 3745-17-07(B)	Visible emissions of any fugitive dust shall not exceed 20% opacity, as a three minute average.
	OAC rule 3745-17-08(B)	Reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust, see Section A.I.2.a.

2. **Additional Terms and Conditions**

a. The permittee shall minimize or eliminate visible emissions of fugitive dust through the employment of reasonably available control measures (RACM).

(a)

The permittee's employment of RACM shall include the use of a two-sided enclosure with a roof for railcar unloading.

Also, the collection efficiency of the air pollution capture hoods for this emissions unit shall be sufficient to minimize or eliminate visible particulate emissions of fugitive dust at all points of capture. The permittee shall maintain all hoods and enclosures in good operating condition. The collection efficiency shall be considered adequate if visible particulate emissions of fugitive dust do not exceed 20% opacity, as a three-minute average.

b. The uncontrolled mass rate of particulate emissions (PE) from this emissions unit is greater than 10 pounds per hour, based on emission factor calculations. The allowable mass rate of emission of particulate matter based on Figure II of OAC rule 3745-17-11 is estimated to be 50 pounds per hour. The allowable mass rate of emission of particulate matter based on Table I of OAC rule 3745-17-11 is estimated to be 25.2 pounds per hour. Therefore, the more stringent value of 25.2 pounds per hour of PE shall be set as the allowable mass emission rate for this emissions unit.

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II. **Operational Restrictions**

1. The pressure drop across each of the baghouses (DC-P1 and DC-P5) shall be maintained within the range of 4 to 6 inches of water while the emissions unit is in operation.

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

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across each of the baghouses (DC-P1 and DC-P5) while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across each of the baghouses on a daily basis.

2. The permittee shall perform monthly inspections on all capture hoods and enclosures to ensure each hood and enclosure are in good operating condition.

3. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust from this emissions unit. The presence or absence of any visible emissions of fugitive dust shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

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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 baghouses did not comply with the allowable range specified above.

2. The permittee shall submit deviation (excursion) reports that identify all periods of time during which the capture hoods and/or enclosures were not maintained in good operating condition.

3. The permittee shall submit semiannual written reports which (a) identify all days during which any visible emissions of fugitive dust were observed from this emissions unit and (b) describe any corrective actions taken to eliminate the visible emissions of fugitive dust. These reports shall be submitted to the Ohio EPA, Northeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

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V. **Testing Requirements**

1. Emission Limitation:
25.2 pounds per hour of particulate emissions

Applicable Compliance Method:
U.S. EPA Reference Methods 1-5 of 40 CFR Part 60, Appendix A

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 3 months after issuance of the permit and within 6 months prior to permit renewal.

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

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Method 5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA, Northeast District Office.

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 Ohio EPA, Northeast District Office.

A particulate emissions test also shall be conducted at the inlet of the control devices to determine the uncontrolled mass rate of emissions for the emissions unit, for purposes of applying Figure II of OAC rule 3745-17-11. For this testing, Method 5 of 40 CFR Part 60, Appendix A shall be employed.
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 appropriate Ohio EPA, Northeast 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.

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 appropriate Ohio EPA, Northeast District Office.

2. Emission Limitation:
20% opacity for stack visible particulate emissions

Applicable Compliance Method:
If required by the Ohio EPA, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures specified in U.S. EPA reference method 9.

3. Emission Limitation:
20% opacity for fugitive dust

Applicable Compliance Method:
Compliance shall be determined by visible emission evaluations performed in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0215010014 Emissions Unit ID: P906 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.

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

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