

Facility ID: 0204010003 Issuance type: Title V Draft Permit

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

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

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

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Part II - Specific Facility Terms and Conditions

a State and Federally Enforceable Section

1. None

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b State Only Enforceable Section

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

- F002 - Storage Piles
- F006 - Limestone Unloading
- P026 - Lime Handling
- P028 - Zorvex (Process)
- P030 - Calcium Carbide Fine Grinding
- T002 - 12,000-gallon storage tank for diesel
- T005 - 6,000-gallon storage tank for light oil
- T007 - 1,000-gallon storage tank for diesel
- T008 - 500-gallon storage tank for unleaded gasoline
- T009 - 2,000-gallon storage tank for waste oil
- T010 - 2,000-gallon storage tank for diesel
- Z003 - Heaters, < 10 MMBtu/hr
- Z004 - Lab Equipment
- Z009 - Maintenance Parts Cleaning
- Z010 - Round House Parts Cleaning
- Z011 - Mobile Repair Parts Cleaning
- Z015 - 10 Pound Can Line (Calcium Carbide Packaging)
- Z016 - (55-gallon) Drum Line (Calcium Carbide Packaging)

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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- [Go to Part III for Emissions Unit P009](#)
- [Go to Part III for Emissions Unit P010](#)
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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0204010003 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
paved roadways and parking areas	OAC rule 3745-17-07(B)(4)	There shall be no visible particulate emissions except for a period of time not to exceed 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 shall be employed (see Sections A.I.2.a., A.I.2.c., A.I.2.e., A.I.2.f. and A.I.2.g.).
unpaved roadways	OAC rule 3745-17-07 (B)(5)	There shall be no visible particulate emissions except for a period of time not to exceed 13 minutes during any 60-minute period.
	OAC rule 3745-17-08(B), (B)(2)	Reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust shall be employed (see Sections A.I.2.b. through A.I.2.d., A.I.2.f. and A.I.2.g.).

2. Additional Terms and Conditions

- a. 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 watering at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- b. The permittee shall employ reasonably available control measures on all unpaved roadways 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 unpaved roadways with water 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 or unpaved 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. Any unpaved roadway, which during the term of this permit is paved or takes the characteristics of a

paved surface due to the application of certain types of dust suppressants, may be controlled with the control measure(s) specified above for paved surfaces. Any unpaved roadway that takes the characteristics of a paved roadway due to the application of certain types of dust suppressants shall remain subject to the visible emission limitation for unpaved roadways and parking areas. Any unpaved roadway that is paved shall be subject to the visible emission limitation for paved roadways and parking areas.

- e. 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.
- f. 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.
- g. 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. The use of used oil as a dust suppressant is prohibited per OAC rule 3745-279-82.
- 2. The permittee shall certify or possess certification that all waste material used to control fugitive dust meets the PCB limitations set forth in 40 CFR 761, and that there are no listed hazardous wastes or characteristic hazardous wastes as set forth in 40 CFR 261.

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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 roadways and parking areas in accordance with the following frequencies:

roadway/parking area surface type	minimum inspection frequency
paved daily	
unpaved daily	

- 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 road surface type;
 - b. 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;
 - c. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - d. the dates the control measures were implemented; and
 - e. 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 Section A.III.4.e. shall be kept separately for (i) the paved roadways and paved parking areas and (ii) the unpaved roadways, 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 quarterly deviation (excursion) 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.

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V. **Testing Requirements**

- 1. Compliance with the emissions limitation(s) in Section A.I.1. of these terms and conditions shall be determined in accordance with the following methods(s):
 - a. Emission Limitation: No visible particulate emissions except for six minutes during any 60-minute period from the paved roadways and parking areas.

Applicable Compliance Method: Compliance with the visible emission limitations for the paved roadways and parking areas identified above shall be determined in accordance with Test Method 22 as set forth in Appendix A 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.
 - b. Emission Limitation: No visible particulate emissions except for thirteen minutes during any 60-minute period from the unpaved roadways.

Applicable Compliance Method: Compliance with the visible emission limitations for the paved roadways and parking areas identified above shall be determined in accordance with Test Method 22 as set forth in Appendix A 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: 0204010003 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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: 0204010003 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2 Crushers, 3 screens, conveyors, elevators, 6 loading stations, and a multiple cyclone and baghouse for dust control	OAC rule 3745-17-07(A)	Visible particulate emissions from this emissions unit shall not exceed 20% as a 6-minute average, except as specified by rule.
	OAC rule 3745-17-11(B)(1)	Particulate emissions (PE) shall not exceed 42.6 lbs/hr.

2. **Additional Terms and Conditions**

- (a) None

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II. **Operational Restrictions**

- 1. The pressure drop across the baghouse (C001BAG) shall be maintained within the range of 3.0 - 6.0 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 maintain a weekly inspection log of the the physical integrity of the multiple cyclone system (C001CYCS).

2. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse, (C001BAG), while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse as well as within each compartment on a once per eight-hour shift basis.

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IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified in Section A.II.1.

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V. Testing Requirements

1. Compliance with the emissions limitation(s) in section A.I.1. of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation: 20% opacity of visible particulate emissions
Applicable Compliance Method: Compliance shall be determined based upon OAC rule 3745-17-03(B)(1).
 - b. Emission Limitation: 42.6 lbs PE/hr
Applicable Compliance Method: Compliance shall be based upon OAC rule 3745-17-03(B)(10).
2. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
 - a. The emission testing shall be conducted within 6 months 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 matter.
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for particulate matter, Method 5 of 40 CFR Part 60, Appendix A.
 - d. The following test method(s) shall be employed to demonstrate compliance with the visible particulate emission limit(s): for opacity, Method 9 of 40 CFR Part 60, Appendix A.
 - e. 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.
3. 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 Offices refusal to accept the results of the emission test(s).
4. Personnel from the 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.
5. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA Northeast District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA Northeast District Office.

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VI. Miscellaneous Requirements

1. None

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Facility ID: 0204010003 Emissions Unit ID: P001 Issuance type: Title V Draft Permit

B. State Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

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

1. None

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II. Operational Restrictions

1. None

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III. Monitoring and/or Record Keeping Requirements

1. None

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IV. Reporting Requirements

1. None

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V. Testing Requirements

1. None

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VI. Miscellaneous Requirements

1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0204010003 Emissions Unit ID: P006 Issuance type: Title V Draft Permit

A. State and Federally Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
1 crusher, screens, conveyors, elevators and a baghouse for dust control	OAC rule 3745-17-07(A)	Visible particulate emissions from this emissions unit shall not exceed 20% as a 6-minute average, except as specified by rule.
	OAC rule 3745-17-11(B)(1)	Particulate emissions (PE) shall not exceed 30.5 lbs/hr.

2. **Additional Terms and Conditions**
 - (a) None

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II. Operational Restrictions

1. The pressure drop across the baghouse (C006&25DUSTEX) shall be maintained within the range of 4.0 - 6.0 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 install, operate, and maintain equipment to monitor the pressure drop across the baghouse, (C006&25DUSTEX), while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse as well as within each compartment on a once per eight-hour shift basis.

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IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified in Section A.II.1.

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V. Testing Requirements

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

- a. Emission Limitation: 20% opacity of visible particulate emissions

Applicable Compliance Method: Compliance shall be determined based upon OAC rule 3745-17-03(B) (1).

- b. Emission Limitation: 30.5 lbs PE/hr

Applicable Compliance Method(s): To determine the actual worst case emission rate for particulate matter, the following equation shall be used:

$$EH = Q \times 528 / (Ta + 460) \times (PE \text{ grain load}) \times (1 \text{ lb PE} / 7000 \text{ grain PE}) \times (60 \text{ min/hr})$$

Where the following applies:

EH = PE emissions, in pounds per hour.
 Q = baghouse exhaust flow, which is 42,000 acfm as noted in the permit application.
 PE grain load = maximum particulate emission load from baghouse, which is 0.02 grains PE/dscf per manufacturer's guarantee.
 Ta = actual (maximum) stack temperature, 50 degrees Fahrenheit as noted in the permit application.

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-5.

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0204010003 Emissions Unit ID: P006 Issuance type: Title V Draft Permit

B. State Enforceable Section

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

- 1. None.

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

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

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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: 0204010003 Emissions Unit ID: P008 Issuance type: Title V Draft Permit

A. State and Federally Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
1 Crusher, 1 screen, 1 hammermill, conveyors, 3 loading stations, and a baghouse for dust control	OAC rule 3745-17-07(A)	Visible particulate emissions from this emissions unit shall not exceed 20% as a 6-minute average, except as specified by rule.
	OAC rule 3745-17-11(B)(1)	Particulate emissions (PE) shall not exceed 46.3 lbs/hr.
2. Additional Terms and Conditions		
(a) None		

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II. Operational Restrictions

1. The pressure drop across the baghouse (C008BAG) shall be maintained within the range of 4.0 - 6.0 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 install, operate, and maintain equipment to monitor the pressure drop across the baghouse, (C008BAG), while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse as well as within each compartment on a once per eight-hour shift basis.

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IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified in Section A.II.1.

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V. Testing Requirements

1. Compliance with the emissions limitation(s) in section A.I.1. of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation: 20% opacity of visible particulate emissions

Applicable Compliance Method: Compliance shall be determined based upon OAC rule 3745-17-03(B)(1).
 - b. Emission Limitation: 46.3 lbs PE/hr

Applicable Compliance Method(s): To determine the actual worst case emission rate for particulate matter, the following equation shall be used:

$$EH = Q \times 528 / (Ta + 460) \times (PE \text{ grain load}) \times (1 \text{ lb PE} / 7000 \text{ grain PE}) \times (60 \text{ min/hr}).$$

Where the following applies:

EH = PE, in pounds per hour.

Q = baghouse exhaust flow, which is 25,000 acfm as noted in the permit application.

PM grain load = maximum particulate load from baghouse, which is 0.02 grains PE/dscf per manufacturer's guarantee.

Ta = actual stack temperature, 50 degrees Fahrenheit as noted in the permit application.

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-5.

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0204010003 Emissions Unit ID: P008 Issuance type: Title V Draft Permit

B. State Enforceable Section

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

- 1. None.

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

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

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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: 0204010003 Emissions Unit ID: P009 Issuance type: Title V Draft Permit

A. State and Federally Enforceable Section

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

1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Lime kiln #3, fueled by natural gas and/or furnace exhaust gas, with a venturi scrubber to control particulate matter emissions	OAC rule 3745-17-07(A)	Visible particulate emissions from this emissions unit shall not exceed 20% as a 6-minute average, except as specified by rule.
	OAC rule 3745-17-11(B)(1)	Particulate emissions (PE) shall not exceed 42.6 lbs/hr.
	OAC rule 3745-18-10(H)	Sulfur dioxide (SO2) emissions shall not exceed 126 lbs/hr.

2. **Additional Terms and Conditions**

- (a) None

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II. **Operational Restrictions**

1. Particulate emissions from kilns no. 3 (P009) and no. 2 (P010) are controlled by a single venturi scrubber system capable of controlling only one kiln at a time. Therefore, both P009 and P010 shall not be operated simultaneously.
2. The pressure drop across the scrubber shall be continuously maintained within the range of 15 - 28 inches of water at all times while the emissions unit is in operation.

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

1. The permittee shall properly install, operate and maintain equipment to continuously monitor the static pressure drop across the scrubber while the emissions unit is in operation. The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals. The permittee shall collect and record the pressure drop across the scrubber, in inches of water, on a once per shift basis.

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IV. **Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports that identify all periods of time during which the static pressure drop across the scrubber was not maintained within the range specified in Section A.II.2.

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V. **Testing Requirements**

1. Compliance with the emissions limitation(s) in section A.I.1. of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation: 20% opacity of visible particulate emissions
Applicable Compliance Method: Compliance shall be determined based upon OAC rule 3745-17-03(B)(1).
 - b. Emission Limitation: 42.6 lbs PE/hr
Applicable Compliance Method: Compliance shall be based upon OAC rule 3745-17-03(B)(10).
 - c. Emission Limitation: 126 lbs SO₂/hr
Applicable Compliance Method: Compliance shall be based upon OAC rule 3745-18-04(A).
2. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
 - a. The emission testing shall be conducted within 6 months 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 matter and for sulfur dioxide.
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for particulate matter, Method 5 of 40 CFR Part 60, Appendix A; and for sulfur dioxide, Method 6 of 40 CFR Part 60, Appendix A.
 - d. The following test method(s) shall be employed to demonstrate compliance with the visible particulate emission limit(s): for opacity, Method 9 of 40 CFR Part 60, Appendix A.
 - e. 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.
3. 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 Offices refusal to accept the results of the emission test(s).
4. Personnel from the 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.
5. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA Northeast District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA Northeast District Office.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0204010003 Emissions Unit ID: P009 Issuance type: Title V Draft Permit

B. State Enforceable Section

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

1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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: 0204010003 Emissions Unit ID: P010 Issuance type: Title V Draft Permit

A. **State and Federally Enforceable Section**

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

1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Lime kiln #2, fueled by natural gas and/or furnace exhaust gas, with a venturi scrubber	OAC rule 3745-17-07(A)	Visible particulate emissions from this emissions unit shall not exceed 20% as a 6-minute average, except as

to control particulate matter emissions

OAC rule 3745-17-11(B)(1)
OAC rule 3745-18-10(H)

specified by rule.

Particulate emissions (PE) shall not exceed 42.6 lbs/hr.
Sulfur dioxide (SO₂) emissions shall not exceed 126 lbs/hr.

2. **Additional Terms and Conditions**

(a) None

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II. **Operational Restrictions**

1. Particulate emissions from kilns no. 3 (P009) and no. 2 (P010) are controlled by a single venturi scrubber system capable of controlling only one kiln at a time. Therefore, both P009 and P010 shall not be operated simultaneously.
2. The pressure drop across the scrubber shall be continuously maintained within the range of 15 - 28 inches of water at all times while the emissions unit is in operation.

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

1. The permittee shall properly install, operate and maintain equipment to continuously monitor the static pressure drop across the scrubber while the emissions unit is in operation. The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals. The permittee shall collect and record the pressure drop across the scrubber, in inches of water, on a once per shift basis.

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IV. **Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports that identify all periods of time during which the static pressure drop across the scrubber was not maintained within the range specified in Section A.II.2.

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V. **Testing Requirements**

1. Compliance with the emissions limitation(s) in section A.I.1. of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation: 20% opacity of visible particulate emissions
Applicable Compliance Method: Compliance shall be determined based upon OAC rule 3745-17-03(B)(1).
 - b. Emission Limitation: 42.6 lbs PE/hr
Applicable Compliance Method: Compliance shall be based upon OAC rule 3745-17-03(B)(10).
 - c. Emission Limitation: 126 lbs SO₂/hr
Applicable Compliance Method: Compliance shall be based upon OAC rule 3745-18-04(A).
2. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
 - a. The emission testing shall be conducted within 6 months 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 matter and for sulfur dioxide.
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for particulate matter, Method 5 of 40 CFR Part 60, Appendix A; and for sulfur dioxide, Method 6 of 40 CFR Part 60, Appendix A.
 - d. The following test method(s) shall be employed to demonstrate compliance with the visible particulate emission limit(s): for opacity, Method 9 of 40 CFR Part 60, Appendix A.

- e. 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.
- 3. 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 Offices refusal to accept the results of the emission test(s).
- 4. Personnel from the 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.
- 5. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA Northeast District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA Northeast District Office.

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0204010003 Emissions Unit ID: P010 Issuance type: Title V Draft Permit

B. State Enforceable Section

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

- 1. None.

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

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

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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: 0204010003 Emissions Unit ID: P025 Issuance type: Title V Draft Permit

A. State and Federally Enforceable Section

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

1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
1 crusher, screens, conveyors, elevators and a baghouse for dust control; a coke dryer, fired with natural gas or furnace exhaust gas, and 3 cyclones and a baghouse for dust control	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack egress point at this emissions unit shall not exceed 20% as a 6-minute average, except as specified by rule.
	OAC rule 3745-17-11(B)(1)	Particulate emissions (PE) from all egress points shall not exceed 30.5 lbs/hr.
	OAC rule 3745-18-06(D)(2)	Sulfur dioxide (SO2) emissions from the dryer operation shall not exceed 223 lbs/hr.

2. **Additional Terms and Conditions**

- (a) None

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II. **Operational Restrictions**

1. The pressure drop across the baghouse (C006&25DUSTEX) for the crushing and handling operations shall be maintained within the range of 4.0 - 6.0 inches of water while the emissions unit is in operation.
2. The pressure drop across the baghouse (C025DUSTEX) for the drying operation shall be maintained within the range of 4.0 - 6.0 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 install, operate, and maintain equipment to monitor the pressure drop across the baghouse for the crushing and handling operations, (C006&25DUSTEX), while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse as well as within each compartment on a once per eight-hour shift basis.
2. The permittee shall maintain a weekly inspection log of the physical integrity of the three cyclone systems for the drying operation (C025CYC1, C025CYC2 and C025CYC3).

3. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse for the drying operation, (C025DUSTEX), while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse as well as within each compartment on a once per eight-hour shift basis.

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IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse (C006&25DUSTEX) did not comply with the allowable range specified in Section A.II.1.
2. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse (C025DUSTEX) did not comply with the allowable range specified in Section A.II.2.

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V. Testing Requirements

1. Compliance with the emissions limitation(s) in section A.I.1. of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation: 20% opacity of visible particulate emissions

Applicable Compliance Method: Compliance shall be determined based upon OAC rule 3745-17-03(B) (1).
 - b. Emission Limitation: 30.5 lbs PE/hr

Applicable Compliance Method(s): Compliance shall be determined based upon the following: Determination of the actual worst case emission rate for particulate matter from the unloading, conveying and crushing operations:

$$EHh = Q \times 528 / (Ta + 460) \times (PE \text{ grain load}) \times (1 \text{ lb PE} / 7000 \text{ grain PE}) \times (60 \text{ min/hr}).$$

Where the following applies:

EHh = PE from handling operations, in pounds per hour.

Q = baghouse exhaust flow, which is 42,000 acfm as noted in the permit application.

PE grain load = maximum particulate load from baghouse, which is 0.02 grains PM/dscf per manufacturer's guarantee.

Ta = actual (maximum) stack temperature, 50 degrees Fahrenheit as noted in the permit application.
 - c. Determination of the actual worst case emission rate for particulate matter from the drying operations:

$$EHd = Q \times 528 / (Ta + 460) \times (PE \text{ grain load}) \times (1 \text{ lb PE} / 7000 \text{ grain PE}) \times (60 \text{ min/hr}).$$

Where the following applies:

EHd = PE from the drying operation, in pounds per hour.

Q = baghouse exhaust flow, which is 23,700 acfm as noted in the permit application.

PE grain load = maximum particulate load from baghouse, which is 0.02 grains PM/dscf per manufacturer's guarantee.

Ta = actual (maximum) stack temperature, 250 degrees Fahrenheit as noted in the permit application.
 - d. Determination of total, actual worst case emission rate (EHt) for PE:

$$EHt = EHh + Ehd$$

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-5.
 - e. Emission Limitation: 223 lbs SO₂/hr

Applicable Compliance Method(s): To determine the actual worst case emission rate for sulfur dioxide from the drying operation the following equation shall be used:

$$EHd = P \times EFd$$

EHd = SO₂ emissions from drying operations, in pounds per hour.

P = maximum production rate, in tons per hour, which is 20 tons per hour as noted in the permit

application.

EFd = emission factor for uncontrolled SO2 emissions from the drying operations, which is 3 pounds of uncontrolled SO2 emissions per ton material processed, based on AIRS data.

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 6 or equivalent, alternative methods (as approved by Ohio EPA).

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0204010003 Emissions Unit ID: P025 Issuance type: Title V Draft Permit

B. State Enforceable Section

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

- 1. None.

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

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

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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: 0204010003 Emissions Unit ID: P027 Issuance type: Title V Draft Permit

A. **State and Federally Enforceable Section**

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

1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Lime conveying and screening operations with a baghouse (C027SLY4), lime conveying and truck loading operations with a cyclone (C027CYC), lime conveying and weighing operations with a baghouse (C027SLY3), coke hopper and weighing operation with a baghouse (C027SLY4), and coke conveying/transfer operations and coke/lime mix operations with a baghouse (C027BAG5).	OAC rule 3745-17-07(A)	Visible particulate emissions from this emissions unit shall not exceed 20% as a 6-minute average, except as specified by rule.
	OAC rule 3745-17-11(B)(1)	Particulate emissions (PE) shall not exceed 46.3 lbs/hr.
2. Additional Terms and Conditions		
(a) None		

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II. **Operational Restrictions**

1. The pressure drop across the baghouse (C027SLY4) for the lime conveying and screening operations and for the coke hopper and weighing operation shall be maintained within the range of 2.0 - 4.0 inches of water while the emissions unit is in operation.
2. The pressure drop across the baghouse (C027SLY3) for the lime conveying and weighing operations shall be maintained within the range of 2.0 - 4.0 inches of water while the emissions unit is in operation.
3. The pressure drop across the baghouse (C027BAG5) for coke conveying/transfer operations and coke/lime mix operations shall be maintained within the range of 4.0 - 6.0 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 install, operate, and maintain equipment to monitor the pressure drop across the baghouse (C027SLY4) for the lime conveying and screening operations and for the coke hopper and weighing operation while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse as well as within each compartment on a once per eight-hour shift basis.
2. The permittee shall maintain a weekly inspection log of the the physical integrity of the cyclone system (C027CYC) for the lime conveying and truck loading operations.
3. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse (C027SLY3) for the lime conveying and weighing operations while the emissions unit is in

operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse as well as within each compartment on a once per eight-hour shift basis.

4. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse (C027BAG5) for the coke conveying/transfer operations and the coke/lime mix operations while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse as well as within each compartment on a once per eight-hour shift basis.

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IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse (C027SLY4) did not comply with the allowable range specified in Section A.II.1.
2. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse (C027SLY3) did not comply with the allowable range specified in Section A.II.2.
3. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse (C027BAG5) did not comply with the allowable range specified in Section A.II.3.

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V. Testing Requirements

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

- a. Emission Limitation: 20% opacity of visible particulate emissions

Applicable Compliance Method: Compliance shall be determined based upon OAC rule 3745-17-03(B) (1).

- b. Emission Limitation: 46.3 lbs PE/hr

Applicable Compliance Method(s): Compliance shall be determined based upon the following:

Determination of the actual worst case emission rate for particulate matter from the lime conveying & transferring operations, lime screening operations, and the coke hopper and weighing operation, (EH4):

$$EH4 = \{[PL \times (EFct + EFs)] + (PC \times Eft)\} \times (1 - CE_C027SLY4).$$

Where the following applies:

EH4 = PE from baghouse, C027SLY4, in pounds per hour.

PL = maximum lime throughput rate, in tons per hour, which is 10 tons per hour as noted in the permit application.

EFct = emission factor for uncontrolled PE from the lime conveying and transfer operations, which is 2.2 pounds of uncontrolled PE per ton material processed, as noted in Table 11.17-4 in Section 11.17 of AP-42.

EFs = emission factor for uncontrolled PE from the lime screening operations, which is 0.032 pounds of uncontrolled PE emissions per ton material processed, based on Table 11.19.2-2 in section 11.19.2 of AP-42.

PC = maximum coke throughput rate, in tons per hour, which is 10 tons per hour as noted in the permit application.

Eft = emission factor for uncontrolled PE from the coke weighing and transfer operations, which is 0.0765 pounds of uncontrolled PE per ton material processed, as noted in Table 2.1.3-2 of Reasonable Available Control Measures for Fugitive Dust (RACM), Ohio EPA, Sept., 1980.

CE_C027SLY4 = control efficiency of PE control device, which is 99% as noted in the permit application.

- c. Determination of the actual worst case emission rate for particulate matter from the lime conveying and truck loading operations, (EHCYC):

$$EHCYC = PL \times (EFct + Efi) \times (1 - CE_C027CYC).$$

Where the following applies:

EHCYC = PE from cyclone, C027CYC, in pounds per hour.

PL = maximum lime throughput rate, in tons per hour, which is 10 tons per hour as noted in the permit

application.

EFct = emission factor for uncontrolled PE from the lime conveying and transfer operations, which is 2.2 pounds of uncontrolled PE per ton material processed, as noted in Table 11.17-4 in Section 11.17 of AP-42.

EF1 = emission factor for uncontrolled PE from the lime open truck loading operations, which is 1.5 pounds of uncontrolled PE per ton material processed, as noted in Table 11.17-4 in Section 11.17 of AP-42.

CE_C027CYC = control efficiency of PE control device(s), which is 80% as noted in the permit application.

- d. Determination of the actual worst case emission rate for particulate matter from the lime conveying and transfer operations, (EH3):

$$EH3 = PL \times EFct \times Nt \times (1 - CE_C027SLY3).$$

Where the following applies:

EH3 = PE from baghouse, C027SLY3, in pounds per hour.

PL = maximum lime throughput rate, in tons per hour, which is 10 tons per hour as noted in the permit application.

EFct = emission factor for uncontrolled PE from the lime conveying and transfer operations, which is 2.2 pounds of uncontrolled PE per ton material processed, as noted in Table 11.17-4 in Section 11.17 of AP-42.

Nt = number of transfer points, which is 5 as noted in the permit application.

CE_C027SLY3 = control efficiency of PE control device, which is 99% as noted in the permit application.

- e. Determination of the actual worst case emission rate for particulate matter from the coke conveying and transfer operations, and the coke & lime mixing operations, (EH5):

$$EH5 = [(PC \times EFct \times Nt) + (PCL \times EFmix)] \times (1 - CE_C027BAG5).$$

Where the following applies:

EH5 = PE from baghouse, C027BAG5, in pounds per hour.

PC = maximum coke throughput rate, in tons per hour, which is 10 tons per hour as noted in the permit application.

EFct = emission factor for uncontrolled PE from the coke conveying and transfer operations, which is 0.0765 pounds of uncontrolled PE per ton material processed, as noted in Table 2.1.3-2 of RACM.

Nt = number of transfer points, which is 5 as noted in the permit application.

PCL = maximum coke and lime mix production rate, in tons per hour, which is 20 tons per hour as noted in the permit application.

EFmix = emission factor for uncontrolled PE from the coke and lime mix operations, which is 20 pounds of uncontrolled PE per ton material processed, as noted in Section 6.4 of AP-42.

C027BAG5 = control efficiency of PE control device, which is 99% as noted in the permit application.

- f. Determination of total, actual worst case rate (EHT) for PE:

$$EHT = EH4 + EHCYC + EH3 + EH5.$$

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-5.

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VI. Miscellaneous Requirements

1. None

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Facility ID: 0204010003 Emissions Unit ID: P027 Issuance type: Title V Draft Permit

B. State Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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: 0204010003 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Feed conveyor operations with a baghouse (C905&6BAG), calcium carbide furnace stack emissions controlled with a tray scrubber system (C905SCRA and CP905SCRB).	OAC rule 3745-17-07(A)	Visible particulate emissions from stack egress points at this emissions unit shall not exceed 20% as a 6-minute average, except as specified by rule.
	OAC rule 3745-17-11(B)(1)	Particulate emissions (PE) from stack egress points shall not exceed 24.6 lbs/hr.
Calcium carbide furnace #13 fugitive emissions and tapping emissions are controlled with a baghouse (C905&6BAG).	OAC rule 3745-17-07(B)(3)	Visible particulate emissions of fugitive dust from electric arc furnace shop roof monitor(s) shall not exceed 20% opacity as a 3-minute average, except as specified by rule.
	OAC rule 3745-17-08(B), (B)(3)	Reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust shall be employed (see Sections A.I.2.a. and A.I.2.b.).
	OAC rule 3745-18(D)(2)	Sulfur dioxide (SO ₂) emissions from all egress points shall not exceed 180 lbs/hr.

2. Additional Terms and Conditions

- a. The permittee shall install and use hoods, fans, and other equipment to adequately enclose, contain, capture, vent and control the fugitive dust. Such equipment shall have a collection efficiency that is sufficient to minimize or eliminate visible particulate emissions of fugitive dust at the point(s) of capture to the extent possible with good engineering design. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- b. Such fugitive dust control equipment shall have an outlet emission rate of no greater than 0.030 grains of particulate matter emissions per dry standard cubic foot of exhaust gases.

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II. Operational Restrictions

1. The pressure drop across the baghouse (C905&6BAG) shall be maintained within the range of 3.0 - 6.0 inches of water while the emissions unit is in operation.
2. The pressure drop across each of the scrubbers (C905SCRA and C905SCRB) shall be continuously maintained within the range of 5 - 15 inches of water at all times while the emissions unit is in operation.
3. The scrubber water flow rate at each of the scrubbers shall be continuously maintained at a value of not less than 20 gallons per minute at all times while the emissions unit is in operation.

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse, (C905&6BAG), while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse as well as within each compartment on a once per eight-hour shift basis.
2. The permittee shall properly install, operate and maintain equipment to continuously monitor the static pressure drop across the scrubbers (C905SCRA and C905SCRB) and the scrubber water flow rates while the emissions unit is in operation. The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals. The permittee shall collect and record the following information each day:
 - a. The pressure drop across each of the scrubbers, in inches of water, on a once per shift basis.
 - b. The scrubber water flow rate for each of the scrubbers, in gallons per minute, on a once per shift basis.

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IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify all periods of time during which the following scrubber (C905SCRA and CC905SCRB) parameters were not maintained at or above the required levels:
 - a. The static pressure drop across the scrubber, as specified in Section A.II.2.
 - b. The scrubber water flow rate, as specified in Section A.II.3.

2. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse (C905&6BAG) did not comply with the allowable range specified in Section A.II.1.

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V. **Testing Requirements**

1. Compliance with the emissions limitation(s) in Section A.I.1. of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation: 20% opacity of visible particulate emissions from all stack egress points and all fugitive egress points
Applicable Compliance Method: Compliance shall be determined based upon OAC rules 3745-17-03(B)(1) and (B)(3), respectively.
 - b. Emission Limitation: 24.6 lbs PE/hr from stack egress points
Applicable Compliance Method: Compliance shall be based upon OAC rule 3745-17-03(B)(10).
 - c. Emission Limitation: 0.030 grains PE/dscf of exhaust gases from fugitive egress points
Applicable Compliance Method: Compliance shall be based upon OAC rule 3745-17-03(B)(7).
 - d. Emission Limitation: 180 lbs SO₂/hr
Applicable Compliance Method: Compliance shall be based upon OAC rule 3745-18-04(A).
2. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
 - a. The emission testing shall be conducted within 6 months 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 matter and for sulfur dioxide.
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for particulate matter, Method 5 of 40 CFR Part 60, Appendix A; and for sulfur dioxide, Method 6 of 40 CFR Part 60, Appendix A.
 - d. The following test method(s) shall be employed to demonstrate compliance with the visible particulate emission limit(s): for opacity, Method 9 of 40 CFR Part 60, Appendix A.
 - e. 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.
3. 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 Offices refusal to accept the results of the emission test(s).
4. Personnel from the 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.
5. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA Northeast District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA Northeast District Office.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0204010003 Emissions Unit ID: P905 Issuance type: Title V Draft Permit

B. State Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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: 0204010003 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Feed conveyor operations with a baghouse (C905&6BAG), calcium carbide furnace stack emissions controlled with a tray scrubber system (C906SCRA and CP906SCRB).	OAC rule 3745-17-07(A)	Visible particulate emissions from stack egress points at this emissions unit shall not exceed 20% as a 6-minute average, except as specified by rule.
	OAC rule 3745-17-11(B)(1)	Particulate emissions (PE) from stack egress points shall not exceed 24.6 lbs/hr.
Calcium carbide furnace #14 fugitive emissions and tapping emissions are controlled with a baghouse (C905&6BAG).	OAC rule 3745-17-07(B)(3)	Visible particulate emissions of fugitive dust from electric arc furnace shop roof monitor(s) shall not exceed 20% opacity as a 3-minute average, except as specified by rule.
	OAC rule 3745-17-08(B), (B)(3)	Reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust shall be employed (see Sections A.I.2.a. and A.I.2.b.).
	OAC rule 3745-18(D)(2)	Sulfur dioxide (SO ₂) emissions from all egress points shall not exceed 180 lbs/hr.

2. Additional Terms and Conditions

- a. The permittee shall install and use hoods, fans, and other equipment to adequately enclose, contain, capture, vent and control the fugitive dust. Such equipment shall have a collection efficiency that is sufficient to minimize or eliminate visible particulate emissions of fugitive dust at the point(s) of capture to the extent possible with good engineering design. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- b. Such fugitive dust control equipment shall have an outlet emission rate of no greater than 0.030 grains of particulate matter emissions per dry standard cubic foot of exhaust gases.

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II. Operational Restrictions

1. The pressure drop across the baghouse (C905&6BAG) shall be maintained within the range of 3.0 - 6.0 inches of water while the emissions unit is in operation.
2. The pressure drop across each of the scrubbers (C906SCRA and C906SCRB) shall be continuously maintained within the range of 5 - 15 inches of water at all times while the emissions unit is in operation.
3. The scrubber water flow rate at each of the scrubbers shall be continuously maintained at a value of not less than 20 gallons per minute at all times while the emissions unit is in operation.

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse, (C905&6BAG), while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse as well as within each compartment on a once per eight-hour shift basis.
2. The permittee shall properly install, operate and maintain equipment to continuously monitor the static pressure drop across the scrubbers (C906SCRA and C906SCRB) and the scrubber water flow rates while the emissions unit is in operation. The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals. The permittee shall collect and record the following information each day:
 - a. The pressure drop across each of the scrubbers, in inches of water, on a once per shift basis.
 - b. The scrubber water flow rate for each of the scrubbers, in gallons per minute, on a once per shift basis.

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IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify all periods of time during which the following scrubber (C906SCRA and CC906SCRB) parameters were not maintained at or above the required levels:
 - a. The static pressure drop across the scrubber, as specified in Section A.II.2.
 - b. The scrubber water flow rate, as specified in Section A.II.3.
2. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse (C905&6BAG) did not comply with the allowable range specified in Section A.II.1.

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V. Testing Requirements

1. Compliance with the emissions limitation(s) in Section A.I.1. of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation: 20% opacity of visible particulate emissions from all stack egress points and all fugitive egress points
Applicable Compliance Method: Compliance shall be determined based upon OAC rules 3745-17-03(B)(1) and (B)(3), respectively.
 - b. Emission Limitation: 24.6 lbs PE/hr from stack egress points
Applicable Compliance Method: Compliance shall be based upon OAC rule 3745-17-03(B)(10).
 - c. Emission Limitation: 0.030 grains PE/dscf of exhaust gases from fugitive egress points
Applicable Compliance Method: Compliance shall be based upon OAC rule 3745-17-03(B)(7).
 - d. Emission Limitation: 180 lbs SO₂/hr
Applicable Compliance Method: Compliance shall be based upon OAC rule 3745-18-04(A).
2. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
 - a. The emission testing shall be conducted within 6 months 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 matter and for sulfur dioxide.
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for particulate matter, Method 5 of 40 CFR Part 60, Appendix A; and for sulfur dioxide, Method 6 of 40 CFR Part 60, Appendix A.
 - d. The following test method(s) shall be employed to demonstrate compliance with the visible particulate emission limit(s): for opacity, Method 9 of 40 CFR Part 60, Appendix A.
 - e. 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.
3. 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 Offices refusal to accept the results of the emission test(s).
4. Personnel from the 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.
5. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA Northeast District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA Northeast District Office.

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VI. Miscellaneous Requirements

- 1. None

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B. State Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

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