

Facility ID: 0250110886 Issuance type: Title V Proposed Permit

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

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

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

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Part II - Specific Facility Terms and Conditions

a State and Federally Enforceable Section

1. This facility is subject to the applicable requirements specified in OAC Chapter 3745-25. In accordance with Ohio EPA Engineering Guide #49, the emission control action programs, as specified in OAC rule 3745-25-03, shall be developed and submitted within 60 days after receiving notification from the Ohio EPA.

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b State Only Enforceable Section

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

Z001 Raw Burden Mixer Drum
Z002 Miscellaneous Maintenance Welding Stations

Each insignificant emissions unit at this facility must comply with all applicable State and federal regulations, as well as any emission limitations and/or control requirements contained within a Permit to Install for the emissions unit.

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0250110886 Emissions Unit ID: F001 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
paved roadways and parking areas (see Section A.I.2.a)	OAC rule 3745-17-07(B)(4) OAC rule 3745-17-08(B), (B)(8), (B)(9)	no visible particulate emissions except for six minutes during any sixty-minute observation period reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.I.2.c, A.I.2.e and A.I.2.h through A.I.2.j)
unpaved roadways and parking areas (see Section A.I.2.b)	OAC rule 3745-17-07(B)(5) OAC rule 3745-17-08(B), (B)(2)	no visible particulate emissions except for thirteen minutes during any sixty-minute observation period 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.g, A.I.2.i and A.I.2.j)

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 facility paved roadways
 - paved parking areas:
 - All facility paved parking areas
- b. The unpaved 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:
 - unpaved roadways:
 - All facility unpaved roadways
 - unpaved parking areas:
 - All facility unpaved parking areas
- c. 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 and flushing at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- d. The permittee shall employ reasonably available control measures on all unpaved 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 unpaved roadways and parking areas with water or suitable dust suppression chemicals at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
 - e. 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.
 - f. A maximum speed limit of 15 miles per hour on unpaved roads shall be posted and enforced on the property.
 - g. Any unpaved roadway or parking area, 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 or parking area that takes the characteristics of a paved roadway or parking area 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 or parking area that is paved shall be subject to the visible emission limitation for paved roadways and parking areas.
 - h. 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.
 - i. pen-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.
 - j. 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 each of the roadway segments and each parking area in accordance with the following frequencies:

paved roadways and parking areas minimum inspection frequency

All Daily

unpaved roadways and parking areas minimum inspection frequency

All 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 on days when the plant is operating and/or receiving raw material or loading-out sinter product. 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 kept separately for (i) the paved roadways and parking areas and (ii) the unpaved roadways and parking areas, 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 Section A.1. of Part I 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 and unpaved 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: 0250110886 Emissions Unit ID: F001 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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: 0250110886 Emissions Unit ID: F002 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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 thirteen minutes during any sixty-minute observation period
	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 thirteen minutes during any sixty-minute observation period
	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)
- BOF Slag Storage Piles
 - Blast Furnace Flue Dust Storage Piles
 - Dolomite Storage Piles
 - Limestone Storage Piles
 - Mill Scale Storage Piles
 - Pellet Fines Storage Piles
 - Sinter Storage Piles
 - Sinter Plant Baghouse Dust 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. In accordance with the permittee's permit application, the permittee has committed to the precautionary operating practices of reducing material drop heights from front-end loader buckets and the reduction of storage pile heights. In addition, the raw material has an inherent high moisture content. The sinter product will be treated with sufficient dust suppression chemicals via spray nozzles in the sinter chutes on the stationary conveyor/stacker to control dust emissions during both load-in and load-out operations. These control methods will be supplemented by watering in the ore yard as needed to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- c. The above-mentioned 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. In accordance with the permittee's permit application, the permittee has committed to the precautionary operating practices of maintaining low raw material storage pile heights to ensure compliance. In addition, the ore yard raw materials have an inherent high moisture content and the storage piles are wind guard protected by buildings which will reduce wind erosion emissions. These control methods will be supplemented by watering in the ore yard as needed to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- e. The above-mentioned 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 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 each load-in operation at each storage pile in accordance with the following frequencies:
- storage pile identification minimum load-in inspection frequency
- All Weekly
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
- All Weekly
3. Except as otherwise provided in this section, the permittee shall perform inspections of the wind erosion from

pile surfaces associated with each storage pile in accordance with the following frequencies:

storage pile identification minimum wind erosion inspection frequency

All Weekly

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 week 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 Section A.1. of Part I 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: 0250110886 Emissions Unit ID: F002 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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: 0250110886 Emissions Unit ID: F003 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
sinter cooler discharge area (sinter cooler discharge conveyor and transfer points) vented to the sinter cooler baghouse	OAC rule 3745-17-07(B)(3)	Visible particulate emissions of fugitive dust from sintering operations, including fugitive emissions from the sinter cooler discharge area, shall not exceed twenty percent opacity as a six-minute average.
	OAC rule 3745-17-07(A)	Except as otherwise specified in paragraph (A)(1) to (A)(3) of OAC rule 3745-17-07, visible particulate emissions from the sinter cooler baghouse outlet shall not exceed twenty percent opacity as a six-minute average, determined in accordance with OAC rule 3745-17-03(B)(1).
	OAC rule 3745-17-08(B)(3)	The permittee shall use hoods and a booster fan to adequately enclose, contain, capture, vent and control the fugitive dust from the sinter cooler discharge end. Such equipment shall meet the following requirements: (a) the collection efficiency is sufficient to minimize or eliminate visible particulate emissions of fugitive dust at the sinter cooler discharge end to the extent possible with good engineering design; and (b) the sinter cooler baghouse outlet achieves an outlet emission rate of not greater than .030 grain of particulate emissions per dry standard cubic foot of exhaust gases or there are no visible particulate emissions from the exhaust outlet, whichever is less stringent.

2. **Additional Terms and Conditions**

- (a) None

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II. **Operational Restrictions**

1. Baghouse Operational Restrictions

The pressure drop across each baghouse compartment shall be maintained within the range of 0.2 to 2.5 inches of water while the emissions unit is in operation.

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

1. Baghouse Pressure Drop Monitoring and Recordkeeping Requirements

The permittee shall properly operate and maintain equipment to monitor the pressure drop across each baghouse compartment 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 each baghouse compartment on a daily basis.

2. The permittee shall perform inspections of the sinter cooler discharge end booster fan and fugitive dust capture system in accordance with the following frequencies:

sinter cooler discharge end minimum inspection frequency

Booster Fan
and Weekly
Fugitive Dust Capture System

3. The purpose of the inspections is to ensure that the collection efficiency provided by the booster fan and fugitive dust capture system is sufficient to minimize or eliminate visible particulate emissions of fugitive dust at the sinter cooler discharge end to the extent possible with good engineering design. The inspections shall be performed during representative, normal operating conditions.

4. 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.

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

- a. the date and reason any required inspection was not performed;

- b. the date of each inspection where it was determined by the permittee that it was necessary to perform maintenance or repair the booster fan or fugitive dust capture system;
- c. the dates that any repair or maintenance of the booster fan or fugitive dust capture system was performed.

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IV. **Reporting Requirements**

1. Baghouse Pressure Drop Reporting Requirements

The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across any baghouse compartment did not comply with the allowable range specified above.

2. The permittee shall submit deviation reports that identify any of the following occurrences:
 - a. each week during which an inspection was not performed by the required frequency; and
 - b. each instance when maintenance or repair of the booster fan or fugitive dust capture system, that was to be performed as a result of an inspection, was not performed.
3. The deviation reports shall be submitted in accordance with Section A.1. of Part I of the General Terms and Conditions of this permit.

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V. **Testing Requirements**

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

a. Emission Limitation:

Visible particulate emissions of fugitive dust from sintering operations, including fugitive emissions from the sinter cooler discharge area, shall not exceed twenty percent opacity as a six-minute average.

Applicable Compliance Method:

OAC rule 3745-17-03(B)(3)

b. Emission Limitation:

Except as otherwise specified in paragraph (A)(1) to (A)(3) of OAC rule 3745-17-07, visible particulate emissions from the sinter cooler baghouse outlet shall not exceed twenty percent opacity as a six-minute average.

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)

c. Emission Limitation:

Particulate matter emissions from the sinter cooler baghouse outlet shall achieve an emission rate of not greater than .030 grain of particulate emissions per dry standard cubic foot of exhaust gases or there shall be no visible particulate emissions from the exhaust outlet, whichever is less stringent.

Applicable Compliance Method:

OAC rule 3745-17-03(B)(7)

2. The permittee shall conduct, or have conducted, emission testing of the sinter cooler baghouse in accordance with the following requirements:

- a. The emission testing shall be conducted within 3 months after issuance of this permit and within 6 months prior to permit renewal.
- b. The emission testing shall be conducted to demonstrate compliance with the allowable emission rate(s) for particulate emissions.
- c. The following test method shall be employed to demonstrate compliance with the allowable mass emission rate(s): Method 5D of 40 CFR, Part 60, Appendix A.
- 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 Ohio EPA Northeast District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA Northeast District Office within 30 days following completion of the test(s).

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0250110886 Emissions Unit ID: F003 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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

- 1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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: 0250110886 Emissions Unit ID: F004 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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

- 1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
raw material handling operations (conveyor and storage bin loading, belt conveying and transfer points)	OAC rule 3745-17-07(B)	Visible particulate emissions of fugitive dust from the raw material handling operations shall not exceed twenty percent opacity as a three-minute average. reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.I.2.b through A.I.2.d)
	OAC rule 3745-17-08(B)	

2. **Additional Terms and Conditions**

- a. The raw material handling operations 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)
 - i. Rotary Car Dumper Loading Area
 - BOF Slag Handling
 - Blast Furnace Flue Dust/Sludge Handling
 - Mill Scale Handling
 - Pellet Fines Handling
 - Sinter Plant Baghouse Dust Handling
 - ii. Limestone/Dolomite Conveyor Loading Area
 - Dolomite and Limestone Handling
 - b. The permittee shall employ reasonably available control measures on all raw material load-in and load-out operations including truck unloading, conveyor loading, raw feed material surge bins, screening, mixing, conveying, and transfers associated with raw material handling 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 the precautionary operating practices of reducing raw material drop heights from front-end loader buckets and the maintenance of the existing partial enclosures of the belt conveyors in the raw material storage area. The raw material has an inherent high moisture content. However, chemical dust suppression shall be employed, as needed, at the rotary car dumper loading area and the limestone/dolomite conveyor loading area to control fugitive dust emissions during both load-in and load-out operations. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
 - c. The above-mentioned control measure(s) shall be employed for the load-in and load-out raw material handling operations 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. 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 each raw material handling operation in accordance with the following frequencies:

raw material handling operation minimum inspection frequency

All Weekly
2. No inspection shall be necessary for any raw material handling operation 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 purpose of the inspections is to determine the need for implementing the control measures specified in this permit for raw material handling operations. The inspections shall be performed during representative normal material handling operating conditions.
4. 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.
5. 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 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 precipitation was sufficient to not require the control measure(s).

The information required in 5.d. shall be kept separately for each raw material handling operation 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 week during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for 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 Section A.1. of Part I of the General Terms and Conditions of this permit.

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V. Testing Requirements

1. Compliance with the emissions limitations in Sections A.I.1 of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:

Visible particulate emissions of fugitive dust from the raw material handling operations shall not exceed twenty percent opacity as a three-minute average.

Applicable Compliance Method:

OAC rule 3745-17-03(B)(3)

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0250110886 Emissions Unit ID: F004 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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

1. None.

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

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

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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: 0250110886 Emissions Unit ID: F005 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
sinter load-out station (high-line truck load-out station) (temporary sinter storage bins, conveyors and transfer chutes) vented to the high-line sinter load-out station baghouse	OAC rule 3745-17-07(B)	Visible particulate emissions of fugitive dust from the high-line sinter load-out station shall not exceed twenty percent opacity as a three-minute average.
	OAC rule 3745-17-07(A)	Except as otherwise specified in paragraph (A)(1) to (A)(3) of OAC rule 3745-17-07, visible particulate emissions from the high-line sinter load-out station baghouse outlet shall not exceed twenty percent opacity as a six-minute average, determined in accordance with OAC rule 3745-17-03(B)(1).
	OAC rule 3745-17-08(B)(3)	The permittee shall use local capture hoods and the existing partial enclosures and fan to adequately enclose, contain, capture, vent and control fugitive dust from the high-line sinter load-out station. Such equipment shall meet the following requirements: (a) the collection efficiency is sufficient to minimize or eliminate visible particulate emissions of fugitive dust at the high-line sinter load-out station to the extent possible with good engineering design; and (b) the baghouse outlet achieves a particulate emission rate of not greater than .030 grain of particulate emissions per dry standard cubic foot of exhaust gases or there are no visible particulate emissions from the exhaust outlet, whichever is less stringent.

2. Additional Terms and Conditions

- (a) None

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II. Operational Restrictions

1. Baghouse Operational Restrictions

The pressure drop across the baghouse compartment shall be maintained within the range of 0.2 to 2.5 inches of water while the emissions unit is in operation.

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III. Monitoring and/or Record Keeping Requirements

1. Baghouse Pressure Drop Monitoring and Recordkeeping Requirements

The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse compartment 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 compartment on a daily basis.

2. The permittee shall perform inspections of the high-line sinter load-out station fan and fugitive dust capture system in accordance with the following frequencies:

high-line sinter load-out station minimum inspection frequency

Fan and Fugitive Dust Capture System Weekly

3. The purpose of the inspections is to ensure that the collection efficiency provided by the fan and fugitive dust capture system is sufficient to minimize or eliminate visible particulate emissions of fugitive dust at the high-line sinter load-out station to the extent possible with good engineering design. The inspections shall be performed during representative, normal operating conditions.
4. 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.
5. The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to perform maintenance or repair the fan or fugitive dust capture system;
 - c. the dates that any repair or maintenance of the fan or fugitive dust capture system was performed.

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IV. **Reporting Requirements**

1. Baghouse Pressure Drop Reporting Requirements

The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse compartment did not comply with the allowable range specified above.
2. The permittee shall submit deviation reports that identify any of the following occurrences:
 - a. each week during which an inspection was not performed by the required frequency; and
 - b. each instance when maintenance or repair of the fan or fugitive dust capture system, that was to be performed as a result of an inspection, was not performed.
3. The deviation reports shall be submitted in accordance with Section A.1. of Part I of the General Terms and Conditions of this permit.

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V. **Testing Requirements**

1. Compliance with the emissions limitations in Sections A.I.1 of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:

Visible particulate emissions of fugitive dust from the high-line sinter load-out station shall not exceed twenty percent opacity as a three-minute average.

Applicable Compliance Method:

OAC rule 3745-17-03(B)(3).
 - b. Emission Limitation:

Except as otherwise specified in paragraph (A)(1) to (A)(3) of OAC rule 3745-17-07, visible particulate emissions from the high-line sinter load-out station baghouse outlet shall not exceed twenty percent opacity as a six-minute average.

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1).
 - c. Emission Limitation:

Particulate matter emissions from the high-line sinter load-out station baghouse outlet shall achieve an emission rate of not greater than .030 grain of particulate emissions per dry standard cubic foot of exhaust gases or there shall be no visible particulate emissions from the baghouse exhaust outlet, whichever is less stringent.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance by testing the high-line sinter load-out station baghouse in accordance with OAC rule 3745-17-03(B)(7).

2. If required, the permittee shall conduct, or have conducted, emission testing of the high-line sinter load-out station baghouse in accordance with the following requirements:
 - a. The emission testing shall be conducted within 60 days after notification by the Ohio EPA that an emission test is required.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable emission rate(s) for particulate emissions.
 - c. The following test method shall be employed to demonstrate compliance with the allowable mass emission rate(s): Method 5D of 40 CFR, Part 60, Appendix A.
 - 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 Ohio EPA Northeast District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

 A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA Northeast District Office within 30 days following completion of the test(s).

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0250110886 Emissions Unit ID: F005 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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

1. None.

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

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

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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: 0250110886 Emissions Unit ID: F006 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
sinter load-out station (ore-yard truck load-out station) (storage bins, conveyors, belt-to-belt transfers and transfer chutes)	OAC rule 3745-17-07(B) OAC rule 3745-17-08(B)	Visible particulate emissions of fugitive dust from the ore-yard sinter load-out station shall not exceed twenty percent opacity as a three-minute average. reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.I.2.b and A.I.2.c)

2. Additional Terms and Conditions

- a. The ore-yard sinter load-out station equipment and operations 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)
 - Sinter Storage Bins
 - Sinter Conveyors
 - Belt-to-Belt Transfers of Sinter
 - Sinter Transfer Chutes

- b. The permittee shall employ reasonably available control measures on all ore-yard sinter load-out station equipment and operations including sinter storage bins, sinter conveyors, belt-to-belt transfers of sinter, sinter transfer chutes and truck loading 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 the maintenance of the existing partial enclosures of the sinter belt conveyors and the application of chemical dust suppression at the ore-yard sinter load-out station belt-to-belt and chute transfer points to control fugitive dust emissions during load-out operations. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

- c. 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 ore-yard sinter load-out station operations in accordance with the following frequencies:

ore-yard sinter load-out minimum inspection frequency
station operations

All Weekly

2. No inspection shall be necessary for ore-yard sinter load-out station operations 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 purpose of the inspections is to determine the need for implementing or supplementing the control measures specified in this permit for ore-yard sinter load-out station operations. The inspections shall be performed during representative normal ore-yard sinter load-out operating conditions.
4. 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.
5. 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 precipitation;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the specified control measures;
 - c. the dates that supplemental control measures were required to be implemented; and
 - d. on a calendar quarter basis, the total number of days that the control measures were required and the total number of days where precipitation was sufficient to not require the control measure(s).

The information required in 5.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 week during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for precipitation; and
 - b. each instance, resulting from an inspection, when a control measure necessary to ensure compliance with the above-mentioned applicable requirements, was not implemented.
2. The deviation reports shall be submitted in accordance with Section A.1. of Part I of the General Terms and Conditions of this permit.

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V. Testing Requirements

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

- a. Emission Limitation:

Visible particulate emissions of fugitive dust from the ore-yard sinter load-out station shall not exceed twenty percent opacity as a three-minute average.

Applicable Compliance Method:

OAC rule 3745-17-03(B)(3)

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0250110886 Emissions Unit ID: F006 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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

- 1. None.

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

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

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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: 0250110886 Emissions Unit ID: F007 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
raw burden (sinter feed) handling (including belt conveying and transfers) vented to "C" baghouse	OAC rule 3745-17-07(B)	Visible particulate emissions of fugitive dust from the raw burden (sinter feed) handling shall not exceed twenty percent opacity as a three-minute average.
	OAC rule 3745-17-07(A)	Except as otherwise specified in paragraph (A)(1) to (A)(3) of OAC rule 3745-17-07, visible particulate emissions from the raw burden (sinter feed) handling "C" baghouse stack shall not exceed twenty percent opacity as a six-minute average, determined in accordance with OAC rule 3745-17-03(B)(1).
	OAC rule 3745-17-08(B)(3)	The permittee shall use the existing partial enclosures and fan to adequately enclose, contain, capture, vent and control fugitive dust from raw burden (sinter feed) handling including belt conveying and transfers. Such equipment shall meet the following requirements: (a) the collection efficiency is sufficient to minimize or eliminate visible particulate emissions of fugitive dust from raw burden (sinter feed) handling to the extent possible with good engineering design; and (b) the "C" baghouse stack achieves a particulate emission rate of not greater than .030 grain of particulate emissions per dry standard cubic foot of exhaust gases or there are no visible particulate emissions from the exhaust stack, whichever is less stringent.

2. Additional Terms and Conditions

- (a) None

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II. Operational Restrictions

- 1. Baghouse Operational Restrictions

The pressure drop across the baghouse shall be maintained within the range of 1.0 to 5.0 inches of water while the emissions unit is in operation.

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III. Monitoring and/or Record Keeping Requirements

- 1. Baghouse Pressure Drop Monitoring and Recordkeeping Requirements

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

- 2. The permittee shall perform inspections of the raw burden (sinter feed) handling fan and fugitive dust capture system in accordance with the following frequencies:

raw burden (sinter feed) handling minimum inspection frequency

Fan and Fugitive Dust Capture System Weekly

3. The purpose of the inspections is to ensure that the collection efficiency provided by the fan and fugitive dust capture system is sufficient to minimize or eliminate visible particulate emissions of fugitive dust at the raw burden (sinter feed) handling to the extent possible with good engineering design. The inspections shall be performed during representative, normal operating conditions.
4. 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.
5. The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to perform maintenance or repair the fan or fugitive dust capture system;
 - c. the dates that any repair or maintenance of the fan or fugitive dust capture system was performed.

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IV. Reporting Requirements

1. Baghouse Pressure Drop Reporting Requirements

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 reports that identify any of the following occurrences:
 - a. each week during which an inspection was not performed by the required frequency; and
 - b. each instance when maintenance or repair of the fan or fugitive dust capture system, that was to be performed as a result of an inspection, was not performed.
3. The deviation reports shall be submitted in accordance with Section A.1. of Part I of the General Terms and Conditions of this permit.

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V. Testing Requirements

1. Compliance with the emissions limitations in Sections A.I.1 of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:

Visible particulate emissions of fugitive dust from the raw burden (sinter feed) handling shall not exceed twenty percent opacity as a three-minute average.

Applicable Compliance Method:

OAC rule 3745-17-03(B)(3).
 - b. Emission Limitation:

Except as otherwise specified in paragraph (A)(1) to (A)(3) of OAC rule 3745-17-07, visible particulate emissions from the raw burden (sinter feed) handling "C" baghouse stack shall not exceed twenty percent opacity as a six-minute average.

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1).
 - c. Emission Limitation:

Particulate matter emissions from the "C" baghouse stack achieves a particulate emission rate of not greater than .030 grain of particulate emissions per dry standard cubic foot of exhaust gases or there are no visible particulate emissions from the exhaust stack, whichever is less stringent.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance by testing the raw burden (sinter feed) handling "C" baghouse in accordance with OAC rule 3745-17-03(B)(7).
2. If required, the permittee shall conduct, or have conducted, emission testing of the raw burden (sinter feed)

handling "C" baghouse in accordance with the following requirements:

- a. The emission testing shall be conducted within 60 days after notification by the Ohio EPA that an emission test is required.
- b. The emission testing shall be conducted to demonstrate compliance with the allowable emission rate for particulate emissions.
- c. The following test method shall be employed to demonstrate compliance with the allowable mass emission rate(s): Method 5 of 40 CFR, Part 60, Appendix A.
- 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 Ohio EPA Northeast District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA Northeast District Office within 30 days following completion of the test(s).

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0250110886 Emissions Unit ID: F007 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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

- 1. None.

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

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

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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: 0250110886 Emissions Unit ID: P001 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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

- 1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
sinter strand windbox and ignition hood	OAC rule 3745-17-08(B)	The permittee shall use the primary capture hood, existing enclosure and fan to adequately enclose, contain, capture and vent particulate emissions of fugitive dust from the sinter strand windbox and ignition hood to the sinter strand windbox baghouse. Such equipment shall be sufficient to minimize or eliminate visible particulate emissions of fugitive dust at the sinter strand windbox and ignition hood to the extent possible with good engineering design.
	OAC rule 3745-17-07(B)(3)	Visible particulate emissions of fugitive dust from sintering operations, including fugitive emissions from the sinter strand windbox and ignition hood, shall not exceed twenty percent opacity as a six-minute average.
	OAC rule 3745-17-07(A)	Except as otherwise specified in paragraph (A)(1) to (A)(3) of OAC rule 3745-17-07, visible particulate emissions from the sinter machine strand windbox stack shall not exceed twenty percent opacity as a six-minute average, determined in accordance with OAC rule 3745-17-03(B)(1).
	OAC rule 3745-17-11	Particulate matter emissions from the sinter machine strand windbox stack shall not exceed 50 pounds per hour based on Figure II of OAC rule 3745-17-11.
	OAC rule 3745-18-56(H)	Sulfur dioxide emissions from the sinter machine strand windbox stack shall not exceed 3.3 pounds of sulfur dioxide per ton of process weight.

2. **Additional Terms and Conditions**

- (a) None

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II. Operational Restrictions

1. Baghouse Operational Restrictions

The pressure drop across the baghouse shall be maintained within the range of 7.0 to 14.0 inches of water while the emissions unit is in operation.

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III. Monitoring and/or Record Keeping Requirements

1. Baghouse Pressure Drop Monitoring and Recordkeeping Requirements

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

2. The permittee shall perform inspections of the sinter strand windbox and ignition hood fan and fugitive dust capture system in accordance with the following frequencies:

sinter strand windbox and ignition hood minimum inspection frequency

Fan and Fugitive Dust Capture System Weekly

3. The purpose of the inspections is to ensure that the collection efficiency provided by the fan and fugitive dust capture system is sufficient to minimize or eliminate visible particulate emissions of fugitive dust at the sinter strand windbox and ignition hood to the extent possible with good engineering design. The inspections shall be performed during representative, normal operating conditions.

4. 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.

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

- a. the date and reason any required inspection was not performed;
- b. the date of each inspection where it was determined by the permittee that it was necessary to perform maintenance or repair the fan or fugitive dust capture system;
- c. the dates that any repair or maintenance of the fan or fugitive dust capture system was performed.

6. Requirements for the Sampling and Analysis of Sinter Burden Material, Sinter Product and Strand Windbox Baghouse Dust

The permittee shall collect representative grab samples of the sinter burden material, sinter product and strand windbox baghouse dust on a frequency of once per operating day. Samples of sinter burden material, sinter product and strand windbox baghouse dust shall be collected from appropriate representative locations. At the end of each calendar month, all of the grab samples of each material collected during that calendar month shall be combined into three individual composite samples.

Each of the monthly composite samples shall be analyzed for sulfur content (percent). The analytical methods for sulfur content shall be proposed by the permittee for approval by the Ohio EPA Northeast District Office. Alternative, equivalent methods may be required by the Ohio EPA Northeast District Office if the proposed methods are rejected by the Ohio EPA.

7. Recordkeeping Requirements for Sinter Burden Material (Process Weight), Sinter Product, Strand Windbox Baghouse Dust and Quality

The permittee shall maintain monthly records of the total quantity of sinter burden material used, sinter product, strand windbox baghouse dust collected and the results of the three composite sample analyses for sulfur content.

8. Recordkeeping Requirements for the Calculated Monthly Average Sulfur Dioxide Emissions Rate

The permittee shall maintain monthly records of the average sulfur dioxide emissions rate calculated in accordance with the formula specified in Section A.V.1.d.

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IV. Reporting Requirements

1. Baghouse Pressure Drop Reporting Requirements

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 reports that identify any of the following occurrences:
 - a. each week during which an inspection was not performed by the required frequency; and
 - b. each instance when maintenance or repair of the fan or fugitive dust capture system, that was to be performed as a result of an inspection, was not performed.
3. The deviation reports shall be submitted in accordance with Section A.1. of Part I of the General Terms and Conditions of this permit.
4. Reporting Requirements for Sinter Burden Material (Process Weight), Sinter Product, Strand Windbox Baghouse Dust and Quality Data

Quarterly reports shall be submitted concerning the quality and quantity of sinter burden material used, sinter product and strand windbox baghouse dust from this emissions unit. These reports shall include the following information for the emissions unit for each calendar month during the calendar quarter:

 - a. the total quantity of sinter burden material used, sinter production and strand windbox baghouse dust collected (pounds);
 - b. the sulfur contents (percent) of the composite samples of sinter burden material, sinter product and strand windbox baghouse dust; and
 - c. the average sulfur dioxide emissions rate [pounds sulfur dioxide/ton of process weight (sinter burden material)] from the sinter strand windbox stack.

These quarterly reports shall be submitted by January 31, April 30, July 31, and October 31 of each year and shall cover the data obtained during the previous calendar quarters.

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V. **Testing Requirements**

1. Compliance with the emissions limitations in Sections A.I.1 of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:

Visible particulate emissions of fugitive dust from sintering operations, including fugitive emissions from the sinter strand windbox and ignition hood, shall not exceed twenty percent opacity as a six-minute average.

Applicable Compliance Method:

OAC rule 3745-17-03(B)(3).
 - b. Emission Limitation:

Except as otherwise specified in paragraph (A)(1) to (A)(3) of OAC rule 3745-17-07, visible particulate emissions from the sinter machine strand windbox stack shall not exceed twenty percent opacity as a six-minute average.

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1).
 - c. Emission Limitation:

Particulate matter emissions from the sinter machine strand windbox stack shall not exceed 50 pounds per hour based on Figure II of OAC rule 3745-17-11.

Applicable Compliance Method:

OAC rule 3745-17-03(B)(10)
 - d. Emission Limitation:

Sulfur dioxide emissions from the sinter machine strand windbox stack shall not exceed 3.3 pounds of sulfur dioxide per ton of process weight.

Applicable Compliance Method:

Stack testing in accordance with OAC rule 3745-18-04(A) and as required by section V.2;

Compliance shall also be demonstrated based upon the monitoring and record keeping requirements in sections III.2 and III.3. The average sulfur dioxide emissions rate [pounds sulfur dioxide/ton of process weight (sinter burden material)] from the sinter strand windbox stack shall be calculated as follows:

$$ER = (2) * [(B)(QB)-(S)(QS)-(D)(QD)] / (QB/2000)$$

where: ER = the average sulfur dioxide emissions rate in pounds of sulfur dioxide per ton of process weight;
 B = the decimal fraction of sulfur in the sinter burden material (process weight) from the composite sample analyses;
 S = the decimal fraction of sulfur in the sinter product from the composite sample analyses;
 D = the decimal fraction of sulfur in the strand windbox baghouse dust from the composite sample analyses;
 QB = the total quantity of sinter burden material used (pounds);
 QS = the total quantity of sinter produced (pounds);
 QD = the total quantity of strand windbox baghouse dust collected (pounds).

2. The permittee shall conduct, or have conducted, emission testing of the sinter machine strand windbox in accordance with the following requirements:
 - a. The emission testing shall be conducted within 3 months after issuance of this permit and within 6 months prior to permit renewal.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable emission rate(s) for particulate emissions and sulfur dioxide.
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Methods 5 and 6 of 40 CFR, Part 60, Appendix A.
 - 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 Ohio EPA Northeast District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

 A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA Northeast District Office within 30 days following completion of the test(s).

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0250110886 Emissions Unit ID: P001 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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

1. None.

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

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

	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: 0250110886 Emissions Unit ID: P002 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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

- 1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
sinter coolers A, B, C and D	OAC rule 3745-17-11	See Sections A.I.2.a and A.I.2.b. The permittee shall use the existing enclosure and fans to adequately enclose, contain, capture and vent particulate emissions of fugitive dust from sinter cooler A to the sinter strand and particulate emissions of fugitive dust from sinter coolers B, C and D to the sinter cooler baghouse. Such equipment shall be sufficient to minimize or eliminate visible particulate emissions of fugitive dust from sinter coolers A, B, C and D to the extent possible with good engineering design.
	OAC rule 3745-17-08(B)	
sinter cooler baghouse (sinter coolers B, C and D)	OAC rule 3745-17-07(B)(3)	Visible particulate emissions of fugitive dust from sintering operations, including fugitive emissions from the sinter coolers, shall not exceed twenty percent opacity as a six-minute average. Except as otherwise specified in paragraph (A)(1) to (A)(3) of OAC rule 3745-17-07, visible particulate
	OAC rule 3745-17-07(A)	

emissions from the sinter cooler baghouse shall not exceed twenty percent opacity as a six-minute average, determined in accordance with OAC rule 3745-17-03 (B)(1).

2. Additional Terms and Conditions

- a. Particulate emissions from the sinter cooler A discharge shall be captured and ducted directly to the sinter strand. The sinter cooler A discharge shall be injected through hoods over the sinter bed, providing preheated air and recycling particulate emissions from sinter cooler A to the sinter strand.
- b. Particulate matter emissions from the sinter coolers A, B, C and D shall not exceed 42.93 pounds per hour combined based on Figure II of OAC rule 3745-17-11.

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II. Operational Restrictions

1. Baghouse Operational Restrictions

The pressure drop across each baghouse compartment shall be maintained within the range of 0.2 to 2.5 inches of water while the emissions unit is in operation.

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III. Monitoring and/or Record Keeping Requirements

1. Baghouse Pressure Drop Monitoring and Recordkeeping Requirements

The permittee shall properly operate and maintain equipment to monitor the pressure drop across each baghouse compartment 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 each baghouse compartment on a daily basis.

2. The permittee shall perform inspections of the sinter coolers A, B, C and D fans and fugitive dust capture systems in accordance with the following frequencies:

sinter coolers A, B, C and D minimum inspection frequency

Fans and Fugitive Dust Weekly
Capture Systems

3. The purpose of the inspections is to ensure that the collection efficiency provided by the fans and fugitive dust capture systems are sufficient to minimize or eliminate visible particulate emissions of fugitive dust from sinter coolers A, B, C and D to the extent possible with good engineering design. The inspections shall be performed during representative, normal operating conditions.
4. 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.
5. The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to perform maintenance or repair the fans or fugitive dust capture systems;
 - c. the dates that any repair or maintenance of the fans or fugitive dust capture systems was performed.

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IV. Reporting Requirements

1. Baghouse Pressure Drop Reporting Requirements

The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across a baghouse compartment did not comply with the allowable range specified above.

2. The permittee shall submit deviation reports that identify any of the following occurrences:
 - a. each week during which an inspection was not performed by the required frequency; and
 - b. each instance when maintenance or repair of the fans or fugitive dust capture systems, that was to be performed as a result of an inspection, was not performed.
3. The deviation reports shall be submitted in accordance with Section A.1. of Part I of the General Terms and Conditions of this permit.

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V. **Testing Requirements**

1. Compliance with the emissions limitations in Sections A.I.1 of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:

Visible particulate emissions of fugitive dust from sintering operations, including fugitive emissions from the sinter coolers, shall not exceed twenty percent opacity as a six-minute average.

Applicable Compliance Method:

OAC rule 3745-17-03(B)(3).
 - b. Emission Limitation:

Except as otherwise specified in paragraph (A)(1) to (A)(3) of OAC rule 3745-17-07, visible particulate emissions from the sinter cooler baghouse shall not exceed twenty percent opacity as a six-minute average.

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1).
 - c. Emission Limitation:

Particulate matter emissions from the sinter coolers A, B, C and D shall not exceed 42.93 pounds per hour combined based on Figure II of OAC rule 3745-17-11.

Applicable Compliance Method:

OAC rule 3745-17-03(B)(10)
2. The permittee shall conduct, or have conducted, emission testing of the sinter cooler baghouse in accordance with the following requirements:
 - a. The emission testing shall be conducted within 3 months after issuance of this permit and within 6 months prior to permit renewal.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable emission rate for particulate emissions.
 - c. The following test method shall be employed to demonstrate compliance with the allowable mass emission rate: Method 5D of 40 CFR, Part 60, Appendix A.
 - 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 Ohio EPA Northeast District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA Northeast District Office within 30 days following completion of the test(s).

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0250110886 Emissions Unit ID: P002 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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: 0250110886 Emissions Unit ID: P901 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
sintering discharge end and raw material / fines surge bins (sinter machine discharge end and associated finished sinter conveyor transfer points, sinter burden (raw mix feed) and sinter fines surge bins and associated conveyor transfer points) vented to a baghouse	OAC rule 3745-17-07(A)	Except as otherwise specified in paragraph (A)(1) to (A)(3) of OAC rule 3745-17-07, visible particulate emissions from the sintering discharge end and raw material / fines surge bins baghouse stack shall not exceed twenty percent opacity as a six-minute average, determined in accordance with OAC rule 3745-17-03 (B)(1).
	OAC rule 3745-17-11	Particulate matter emissions from the sintering discharge end and raw material / fines surge bins baghouse shall not exceed 50 pounds per hour based on Figure II of OAC rule 3745-17-11.
	OAC rule 3745-17-07(B)	Visible particulate emissions of fugitive dust from the sintering discharge end and raw material / fines surge bins shall not exceed twenty percent opacity as a three-minute average.
	OAC rule 3745-17-08(B)	The permittee shall use local hoods, fan and baghouse to adequately enclose, contain, capture, vent and control the fugitive dust from the sintering discharge end and raw material / fines surge bins. Such equipment shall be sufficient to minimize or eliminate visible particulate emissions of fugitive dust from the sintering discharge end and raw material / fines surge bins to the extent possible with good engineering design.

2. **Additional Terms and Conditions**

- (a) None

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II. **Operational Restrictions**

1. **Baghouse Operational Restrictions**

The pressure drop across the baghouse shall be maintained within the range of 4.0 to 9.0 inches of water while the emissions unit is in operation.

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

1. **Baghouse Pressure Drop Monitoring and Recordkeeping Requirements**

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

2. The permittee shall perform inspections of the sintering discharge end and raw material / fines surge bins fan and fugitive dust capture system in accordance with the following frequencies:

sintering discharge end and raw material / fines surge bins minimum inspection frequency

Fan and Fugitive Dust Weekly
Capture System

3. The purpose of the inspections is to ensure that the collection efficiency provided by the fan and fugitive dust capture system is sufficient to minimize or eliminate visible particulate emissions of fugitive dust from sintering discharge end and raw material / fines surge bins to the extent possible with good engineering design. The inspections shall be performed during representative, normal operating conditions.

4. 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.

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

- a. the date and reason any required inspection was not performed;
- b. the date of each inspection where it was determined by the permittee that it was necessary to perform maintenance or repair the fan or fugitive dust capture system;
- c. the dates that any repair or maintenance of the fan or fugitive dust capture system was performed.

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IV. **Reporting Requirements**

1. Baghouse Pressure Drop Reporting Requirements

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 reports that identify any of the following occurrences:

- a. each week during which an inspection was not performed by the required frequency; and
- b. each instance when maintenance or repair of the fan or fugitive dust capture system, that was to be performed as a result of an inspection, was not performed.

3. The deviation reports shall be submitted in accordance with Section A.1. of Part I of the General Terms and Conditions of this permit.

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V. **Testing Requirements**

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

a. Emission Limitation:

Except as otherwise specified in paragraph (A)(1) to (A)(3) of OAC rule 3745-17-07, visible particulate emissions from the sintering discharge end and raw material / fines surge bins baghouse stack shall not exceed twenty percent opacity as a six-minute average.

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)

b. Emission Limitation:

Particulate matter emissions from the sintering discharge end and raw material / fines surge bins baghouse shall not exceed 50 pounds per hour based on Figure II of OAC rule 3745-17-11.

Applicable Compliance Method:

OAC rule 3745-17-03(B)(10)

c. Emission Limitation:

Visible particulate emissions of fugitive dust from the sintering discharge end and raw material / fines surge bins shall not exceed twenty percent opacity as a three-minute average.

Applicable Compliance Method:

OAC rule 3745-17-03(B)(3)

2. The permittee shall conduct, or have conducted, emission testing of the sintering discharge end and raw material / fines surge bins "A" baghouse in accordance with the following requirements:

- a. The emission testing shall be conducted within 3 months after issuance of this permit and within 6 months prior to permit renewal.
- b. The emission testing shall be conducted to demonstrate compliance with the allowable emission rate(s) for particulate emissions.
- c. The following test method shall be employed to demonstrate compliance with the allowable mass emission rate: Method 5 of 40 CFR, Part 60, Appendix A.

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA Northeast District Office within 30 days following completion of the test(s).

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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