

Facility ID: 1576000074 Issuance type: Title V Draft Permit

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

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

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

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Part II - Specific Facility Terms and Conditions

a State and Federally Enforceable Section

1. This facility is subject to the applicable requirements specified in OAC Chapter 3745-25. In accordance with Ohio EPA Engineering Guide #64, 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:

G001 - 1,000-gallon diesel fuel tank (EU31);
L001 - degreaser (EU32);
Z001 - pneumatic unloading into silos (EU29); and
Z002 - 10,000-gallon grinding aid tank (EU30).

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: 1576000074 Emissions Unit ID: F001 Issuance type: Title V Draft Permit

A. State and Federally Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
paved roadways and parking areas (EU21), 60,000 sq.ft. (see section A.I.2.a.)	OAC rule 3745-17-07(B)(4)	no visible particulate emissions except for 6 minutes during any 60-minute period
	OAC rule 3745-17-08(B), (B)(7), (B)(8) & (B)(9)	reasonably available control measures (see sections A.I.2.c, A.I.2.d, and A.I.2.f through A.I.2.k)
unpaved roadways and parking areas (EU20), 144,000 sq.ft. (see section A.I.2.b.)	OAC rule 3745-17-07(B)(5)	no visible particulate emissions except for 13 minutes during any 60-minute period
	OAC rule 3745-17-08(B), (B)(2)	reasonably available control measures (see sections A.I.2.e through A.I.2.k)

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:
 - paved 1: plant entrance and silos' loading areas/roadways (0.2 mi)

paved parking areas:

paved 2: parking area in front (north) of Axim building (0.4 mi)

paved 2A: roadway and concrete slab parking, north of office building (0.2 mi)

- 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 and parking areas:
- unpaved 1: roadway southside of plant to slag piles area (1.4 mi)
- unpaved 2: west-east roadway to finish mills building and truck transfer to fringe bin(s) area (0.08 mi)
- unpaved 3: clinker and gypsum pile(s) areas north and west of crane storage building (0.1 mi)
- unpaved 4: roadway going north of plant and east, with a branch road to a reservoir and screw conveyor truck loading area (0.5 mi)
- 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 self-propelled vacuum broom sweeping or by flushing with water at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- d. The permittee shall employ reasonably available control measures on the unpaved shoulders of all paved roadways for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the unpaved shoulders of all paved roadways with water and/or any other 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 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 and/or any other 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.
- f. 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.
- 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.
- k. A maximum speed limit of 15 miles per hour on unpaved roads shall be posted and enforced on the property.

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II. Operational Restrictions

1. None

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform inspections of the roadways and parking areas in accordance with the following frequencies:

paved roadways and parking areas minimum inspection frequency

all weekly

unpaved roadways and parking areas minimum inspection frequency

all daily

The purpose of the inspections is to determine the need for implementing the control measures specified in section A.I.2. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to minimize or eliminate visible emissions of fugitive dust generated by vehicular traffic and to ensure compliance with the above-mentioned visible emission limitations. 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.

The permittee may, upon receipt of written approval from the Canton City Health Department, Air Pollution Control Division, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to minimize or eliminate visible emissions of fugitive dust generated by vehicular traffic and to ensure compliance with the above-mentioned visible emission limitations.

2. 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 section A.III.2.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 the requirements specified in Part I - General Term and Condition A.1.c.

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V. Testing Requirements

1. Compliance with the emission limitations 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: 1576000074 Emissions Unit ID: F001 Issuance type: Title V Draft Permit

B. State Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
paved roadways and parking areas	none	none
unpaved roadways and parking areas	none	none

2. Additional Terms and Conditions

- 1. None

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II. Operational Restrictions

- 1. None

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III. Monitoring and/or Record Keeping Requirements

- 1. None

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IV. Reporting Requirements

- 1. If there are no deviations during a calendar quarter that must be reported pursuant to section A.IV of this permit, the permittee shall submit a quarterly report, in accordance with paragraph B.8 of the General Terms and Conditions, which states that no deviations occurred during that quarter.

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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: 157600074 Emissions Unit ID: F002 Issuance type: Title V Draft Permit

A. State and Federally Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
portland cement plant- material handling operations (F002) including front-end loaders, dump trucks, conveyor systems and and a 3 cu. yd./ 17-ton overhead crane for transfer of clinker, gypsum or slag material inside a 3-sided crane storage building (100' x 300' w/ 10 bays @ 30' storage)	OAC rule 3745-17-07(B)(1) OAC rule 3745-17-08(B)	Visible particulate emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average. reasonably available control measures that are sufficient to minimize or eliminate visible emissions of dust (see sections A.I.2.b, A.I.2.c, and A.I.2.d)

2. Additional Terms and Conditions

- a. The 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. transfer of clinker or gypsum using front-end loaders and/or dump truck from clinker storage pile EU13 (F003), gypsum storage pile EU33 (F013) or offsite to inside crane storage building EU04 (F002);
 - ii. transfer of slag from dryer discharge belt conveyor EU26 (Z012), vented to baghouse #10 (CD14), to crane storage building EU04 (F002) ladder chute and into storage bay pile;
 - iii. slag drop transfer from railcar unloading conveyor belts #1 and #2 EU03 (F008) to crane storage building pile; and
 - iv. transfer of material (slag, clinker or gypsum) by 6 cu. yd. (17-ton) crane to other parts of crane storage building (100' x 300' w/ 10 bays @ 30' storage), to include gravity fed hoppers #1 EU06 (F010) and #2 EU05 (F009).
 - b. The permittee shall employ reasonably available control measures for the above-identified material handling operations for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's application, the permittee has committed to perform the following control measures to ensure compliance:
 - i. for the transfer of clinker or gypsum, the fugitive particulate emissions shall be minimized or eliminated by an appropriate manner of material handling, including the minimizing the drop height from the front end loader and/or dump truck onto the pile;
 - ii. for the transfer of slag from dryer discharge belt conveyor to the crane storage building ladder chute into a storage bay pile, the fugitive particulate emissions will be minimized or eliminated use of hood (s), minimizing the drop height and covering of building opening(s) of the partially 3-sided building with roof;
 - iii. for the transfer of slag from the railcar unloading conveyor belts #1 and #2 to storage pile(s) in the crane storage building, fugitive particulate emissions shall be minimized or eliminated by an appropriate manner of material handling, including the minimizing of the drop height from the from the conveyor onto the piles; and
 - iv. for the tranfer of slag, clinker or gypsum by overhead crane to other parts of the crane storage building, the fugitive emissions will be minimized or eliminated by minimizing the crane bucket drop height.

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
 - c. For each material handling operation that is not adequately enclosed, the above-identified control measure(s) shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) is (are) necessary to insure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during the operation of the material handling operation(s) until further observation confirms that use of the control measure(s) is unnecessary.
 - d. Implementation of the above-mentioned control measures(s) in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-17-

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II. Operational Restrictions

1. None

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform daily checks when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions of fugitive dust from any non-stack egress point (e.g. openings in 3-sided building, windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible particulate emissions of fugitive dust shall be noted in an operations log. If visible particulate emissions of fugitive dust are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible particulate emission incident; and
 - e. any corrective actions taken to minimize or eliminate the visible fugitive particulate emissions.

Persons responsible for making visible emission observations should acquire basic training in the general principles and practices of "reading" opacity. At a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, observer position relative to lighting, wind, and the presence of uncombined water.

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IV. Reporting Requirements

1. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions of fugitive dust were observed from this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions of fugitive dust. These reports shall be submitted to the Canton City Health Department (CCHD), Air Pollution Control Division (APCD) by January 31 and July 31 of each year and shall cover the previous 6-month period.
2. All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

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V. Testing Requirements

1. Compliance with the emission limitation in section A.1.1 of these terms and conditions shall be determined in accordance with the following method:
 - a. Emission Limitation:

20% opacity as a 3-minute average for fugitive emissions

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3). The points of observation for visible particulate emissions of fugitive dust shall include any non-stack egress points from the building. Such egress points shall include, but are not limited to, openings in 3-sided buildings, doorways, windows, and roof monitors.

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VI. Miscellaneous Requirements

1. None

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Facility ID: 1576000074 Emissions Unit ID: F002 Issuance type: Title V Draft Permit

B. State Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions		
1. None		

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II. Operational Restrictions

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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: 1576000074 Emissions Unit ID: F003 Issuance type: Title V Draft Permit

A. State and Federally Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
load-in and load-out of storage piles (see section A.I.2.a for identification of storage piles)	OAC rule 3745-17-07(B)(6)	no visible emissions except for 13 minutes during any 60-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 of storage piles (see section A.I.2.a for identification of storage piles)	OAC rule 3745-17-07(B)(6)	no visible emissions except for 13 minutes during any 60-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)
 - i. raw slag aggregate stockpiles (EU19) from 25-ton truck unloading area #2 (EU18) - large field of slag storage piles, approx. 20,000 sq. ft. area, 6' - 12' high, near building housing wobbler feeder (EU36);
 - ii. clinker raw material piles (EU13) from 25-ton truck unloading area #1 (EU01) - clinker storage pile #1 is adjacent to the crane storage building and clinker storage pile #2 is across the access road from first storage pile; and
 - iii. gypsum aggregate pile (EU35) from 25-ton truck unloading area #1 (EU01) - one storage pile (6' -12' feet high) partially enclosed by two walls of the crane storage building (EU04).
 - 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 water spray application on the gypsum and slag storage piles, and the use of partial enclosure walls where practical and drop-height control during load-in and load-out to minimize or eliminate fugitive emissions. 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 that measure 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 treat the gypsum and slag storage piles with water and/or any other suitable dust suppression chemicals via spraying and keep each clinker storage pile covered with tarps, except during load-in and load-out operations, 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
 - slag storage piles daily
 - clinker storage pile #1 daily
 - clinker storage pile #2 daily
 - gypsum storage pile daily
2. Except as otherwise provided in this section, the permittee shall perform inspections of each load-out operation at each storage pile in accordance with the following frequencies:
 - storage pile identification minimum load-out inspection frequency
 - slag storage piles daily
 - clinker storage pile #1 daily
 - clinker storage pile #2 daily
 - gypsum storage pile daily
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
 - slag storage piles daily
 - clinker storage pile #1 daily
 - clinker storage pile #2 daily
 - gypsum storage pile daily
4. No inspection shall be necessary for wind erosion from the surface of a storage pile when the pile is covered with snow and/or ice and for any storage pile activity if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above-identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.
5. The purpose of the inspections is to determine the need for implementing the control measures specified in this permit for load-in and load-out of a storage pile, and wind erosion from the surface of a storage pile. The inspections shall be performed during representative, normal storage pile operating conditions.
6. The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, 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 section A.III.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 quarterly deviation (exceedance) 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 to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702 in accordance with the reporting requirements of General Term and Condition A.1.c.ii 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: 1576000074 Emissions Unit ID: F003 Issuance type: Title V Draft Permit

B. State Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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load-in and load-out of storage piles (see section A.I.2.a for identification of storage piles)		
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2. **Additional Terms and Conditions**

1. None

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II. Operational Restrictions

1. None

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III. Monitoring and/or Record Keeping Requirements

1. None

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IV. Reporting Requirements

1. If there are no deviations during a calendar quarter that must be reported pursuant to section A.IV of this permit, the permittee shall submit a quarterly report, in accordance with paragraph B.8 of the General Terms and Conditions, which states that no deviations occurred during that quarter.

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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: 1576000074 Emissions Unit ID: F004 Issuance type: Title V Draft Permit

A. State and Federally Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
slag unloading from railcar bottom dumping (EU02) into 36" x 30" Jeffrey vibrating feeder, 200 tph capacity, open at bottom to conveyor #1 (EU03)	OAC rule 3745-17-07(B)(1) OAC rule 3745-17-08(B)	See A.I.2.a below. See A.I.2.b below.

2. Additional Terms and Conditions

- a. Visible particulate emissions of fugitive dust from this emissions unit shall not exceed 20% opacity as a 3-minute average.
- b. The permittee shall employ reasonably available control measures in order to minimize or eliminate fugitive particulate emissions by an appropriate manner of material handling, including a 3-sided building enclosure, water spray application, and minimizing drop height when unloading and transferring slag. The slag shall have a minimum moisture content of 7%.

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II. Operational Restrictions

1. None

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform daily checks when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions of fugitive dust from any non-stack egress point (e.g. openings in 3-sided building, windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible particulate emissions of fugitive dust shall be noted in an operations log. If visible particulate emissions of fugitive dust are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible particulate emission incident; and
 - e. any corrective actions taken to minimize or eliminate the visible fugitive particulate emissions.

Persons responsible for making visible emission observations should acquire basic training in the general principles and practices of "reading" opacity. At a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, observer position relative to lighting, wind, and the presence of uncombined water.

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IV. **Reporting Requirements**

1. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions of fugitive dust were observed from this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions of fugitive dust. These reports shall be submitted to the Canton City Health Department (CCHD), Air Pollution Control Division (APCD) by January 31 and July 31 of each year and shall cover the previous 6-month period.
2. All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

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V. **Testing Requirements**

1. Compliance with the emission limitation in section A.1.2 of these terms and conditions shall be determined in accordance with the following method:
 - a. Emission Limitation:

20% opacity as a 3-minute average for fugitive emissions

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC Rule 3745-17-03(B) (3). The points of observation for visible particulate emissions of fugitive dust shall include any non-stack egress points from the building. Such egress points shall include, but are not limited to, openings in 3-sided buildings, doorways, windows, and roof monitors.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 1576000074 Emissions Unit ID: F004 Issuance type: Title V Draft Permit

B. State Enforceable Section

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

1. None.

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

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

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

1. None

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II. **Operational Restrictions**

1. None

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

- 1. None

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IV. Reporting Requirements

- 1. None

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V. Testing Requirements

- 1. None

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VI. Miscellaneous Requirements

- 1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 1576000074 Emissions Unit ID: F008 Issuance type: Title V Draft Permit

A. State and Federally Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
slag transfer drop from underground 24" x 516' conveyor #1 (03A) to 24" x 30' conveyor #2 (03B) to inside crane storage building (SW corner)	OAC rule 3745-17-07(B)(1) OAC rule 3745-17-08(B)	See A.I.2.a below. See A.I.2.b below.

2. Additional Terms and Conditions

- a. Visible particulate emissions of fugitive dust from this emissions unit shall not exceed 20% opacity as a 3-minute average.
- b. The permittee shall employ reasonably available control measures in order to minimize or eliminate fugitive particulate emissions by an appropriate manner of material handling, including a 3-sided building enclosure, water spray application, and minimizing drop height when unloading and transferring slag. The slag shall have a minimum moisture content of 7%.

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II. Operational Restrictions

- 1. None

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III. Monitoring and/or Record Keeping Requirements

- 1. The permittee shall perform daily checks when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions of fugitive dust from any non-stack egress point (e.g.

openings in 3-sided building, windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible particulate emissions of fugitive dust shall be noted in an operations log. If visible particulate emissions of fugitive dust are observed, the permittee shall also note the following in the operations log:

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

Persons responsible for making visible emission observations should acquire basic training in the general principles and practices of "reading" opacity. At a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, observer position relative to lighting, wind, and the presence of uncombined water.

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IV. Reporting Requirements

1. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions of fugitive dust were observed from this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions of fugitive dust. These reports shall be submitted to the Canton City Health Department (CCHD), Air Pollution Control Division (APCD) by January 31 and July 31 of each year and shall cover the previous 6-month period.
2. All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

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V. Testing Requirements

1. Compliance with the emission limitation in section A.1.2 of these terms and conditions shall be determined in accordance with the following method:
 - a. Emission Limitation:

20% opacity as a 3-minute average for fugitive emissions

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3). The points of observation for visible particulate emissions of fugitive dust shall include any non-stack egress points from the building. Such egress points shall include, but are not limited to, openings in 3-sided buildings, doorways, windows, and roof monitors.

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VI. Miscellaneous Requirements

1. None

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Facility ID: 1576000074 Emissions Unit ID: F008 Issuance type: Title V Draft Permit

B. State Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

- | | <u>Operations, Property, and/or Equipment</u> | <u>Applicable Rules/Requirements</u> | <u>Applicable Emissions Limitations/Control Measures</u> |
|---|---|--------------------------------------|--|
| 2. Additional Terms and Conditions | | | |
| 1. None | | | |

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II. **Operational Restrictions**

1. None

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

1. None

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IV. **Reporting Requirements**

1. None

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V. **Testing Requirements**

1. None

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 1576000074 Emissions Unit ID: F009 Issuance type: Title V Draft Permit

A. State and Federally Enforceable Section

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

1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
gravity fed hoppers #2 - material handling operations	OAC rule 3745-17-07(B)(1)	Visible particulate emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average.
	OAC rule 3745-17-08(B)	reasonably available control measures that are sufficient to minimize or eliminate visible emissions of dust (see sections A.I.2.b, A.I.2.c, and A.I.2.d)

2. **Additional Terms and Conditions**

- a. The 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. transfer of material (clinker, gypsum, or slag) from crane (EU04C) to gravity fed hopper #2 (EU05); and
 - ii. transfer of material (clinker, gypsum, or slag) from hopper #2(EU05) to Merrick weigh feeders (EU07A).
- b. The permittee shall employ reasonably available control measures for the above-identified material handling operations for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's application, the permittee has committed to perform the following control measures to ensure compliance:
- i. for the transfer of clinker, gypsum or slag, the fugitive particulate emissions shall be minimized or eliminated by an appropriate manner of material handling, including minimizing the drop height from the crane transfer bucket; and
 - ii. for the transfer of clinker, gypsum, or slag from the hopper #1 to weigh feeders, the fugitive particulate emissions will be minimized or eliminated by minimizing the drop height, use of hood(s), and covering of the belt conveyors.
- Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- c. For each material handling operation that is not adequately enclosed, the above-identified control measure(s) shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) is (are) necessary to insure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during the operation of the material handling operation(s) until further observation confirms that use of the control measure(s) is unnecessary.
- d. Implementation of the above-mentioned control measures(s) 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. The permittee shall perform daily checks when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions of fugitive dust from any non-stack egress point (e.g. openings in 3-sided building, windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible particulate emissions of fugitive dust shall be noted in an operations log. If visible particulate emissions of fugitive dust are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible particulate emission incident; and
 - e. any corrective actions taken to minimize or eliminate the visible fugitive particulate emissions.

Persons responsible for making visible emission observations should acquire basic training in the general principles and practices of "reading" opacity. At a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, observer position relative to lighting, wind, and the presence of uncombined water.

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IV. Reporting Requirements

1. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions of fugitive dust were observed from this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions of fugitive dust. These reports shall be submitted to the Canton City Health Department (CCHD), Air Pollution Control Division (APCD) by January 31 and July 31 of each year and shall cover the previous 6-month period.
2. All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

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V. **Testing Requirements**

1. Compliance with the emission limitation in section A.I.1 of these terms and conditions shall be determined in accordance with the following method:
 - a. Emission Limitation:

20% opacity as a 3-minute average for fugitive emissions

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible particulate emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3). The points of observation for visible particulate emissions of fugitive dust shall include any non-stack egress points from the building. Such egress points shall include, but are not limited to, openings in 3-sided buildings, doorways, windows, and roof monitors.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 1576000074 Emissions Unit ID: F009 Issuance type: Title V Draft Permit

B. State Enforceable Section

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

1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions		
1. None		

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II. **Operational Restrictions**

1. None

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

1. None

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IV. **Reporting Requirements**

1. None

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V. **Testing Requirements**

- 1. None

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VI. **Miscellaneous Requirements**

- 1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 1576000074 Emissions Unit ID: F010 Issuance type: Title V Draft Permit

A. State and Federally Enforceable Section

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

- 1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
gravity fed hoppers #1 - material handling operations	OAC rule 3745-17-07(B)(1)	Visible particulate emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average.
	OAC rule 3745-17-08(B)	reasonably available control measures that are sufficient to minimize or eliminate visible emissions of dust (see sections A.I.2.b, A.I.2.c, and A.I.2.d)

2. **Additional Terms and Conditions**

- a. The 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. transfer of material (clinker, gypsum, or slag) from crane (EU04C) to gravity fed hopper #1 (EU06); and
 - ii. transfer of material (clinker, gypsum, or slag) from hopper #1 (EU06) to Merrick weigh feeders (EU08A).
 - b. The permittee shall employ reasonably available control measures for the above-identified material handling operations for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's application, the permittee has committed to perform the following control measures to ensure compliance:
 - i. for the transfer of clinker, gypsum or slag, the fugitive particulate emissions shall be minimized or eliminated by an appropriate manner of material handling, including minimizing the drop height from the crane transfer bucket; and
 - ii. for the transfer of clinker, gypsum, or slag from the hopper #1 to weigh feeders, the fugitive particulate emissions will be minimized or eliminated by minimizing the drop height, use of hood(s), and covering of the belt conveyors.
 Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
 - c. For each material handling operation that is not adequately enclosed, the above-identified control measure(s) shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) is (are) necessary to insure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during the operation of the material handling operation(s) until further observation confirms that use of the control measure(s) is unnecessary.

- d. Implementation of the above-mentioned control measures(s) 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. The permittee shall perform daily checks when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions of fugitive dust from any non-stack egress point (e.g. openings in 3-sided building, windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible particulate emissions of fugitive dust shall be noted in an operations log. If visible particulate emissions of fugitive dust are observed, the permittee shall also note the following in the operations log:
- the color of the emissions;
 - whether the emissions are representative of normal operations;
 - if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - the total duration of any visible particulate emission incident; and
 - any corrective actions taken to minimize or eliminate the visible fugitive particulate emissions.

Persons responsible for making visible emission observations should acquire basic training in the general principles and practices of "reading" opacity. At a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, observer position relative to lighting, wind, and the presence of uncombined water.

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IV. Reporting Requirements

1. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions of fugitive dust were observed from this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions of fugitive dust. These reports shall be submitted to the Canton City Health Department (CCHD), Air Pollution Control Division (APCD) by January 31 and July 31 of each year and shall cover the previous 6-month period.
2. All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

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V. Testing Requirements

1. Compliance with the emission limitation in section A.1.1 of these terms and conditions shall be determined in accordance with the following method:
- Emission Limitation:

20% opacity as a 3-minute average for fugitive emissions

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible particulate emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3). The points of observation for visible particulate emissions of fugitive dust shall include any non-stack egress points from the building. Such egress points shall include, but are not limited to, openings in 3-sided buildings, doorways, windows, and roof monitors.

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VI. Miscellaneous Requirements

1. None

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Facility ID: 157600074 Emissions Unit ID: F010 Issuance type: Title V Draft Permit

B. State Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions		
1. None		

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II. Operational Restrictions

1. None

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III. Monitoring and/or Record Keeping Requirements

1. None

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IV. Reporting Requirements

1. None

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V. Testing Requirements

1. None

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VI. Miscellaneous Requirements

1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 157600074 Emissions Unit ID: F011 Issuance type: Title V Draft Permit

A. State and Federally Enforceable Section

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

1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
slag transfer from series of three 12" screw conveyors [discharges from cyclones #1 and 2 (CD15) receiving exhaust from raw slag dryer (EU25); and discharge from ESP fields #1 and #2 (CD16) receiving exhaust from cyclones outlet] discharging via enclosed removable spout to mobile bulk tanker (EU27)	OAC rule 3745-17-07(B)(1) OAC rule 3745-17-08(B)	See A.I.2.a below. See A.I.2.b below.

2. **Additional Terms and Conditions**

- a. Visible particulate emissions of fugitive dust from this emissions unit shall not exceed 20% opacity as a 3-minute average.
- b. The permittee shall employ reasonably available control measures in order to minimize or eliminate fugitive particulate emissions by an appropriate manner of material handling, including a leaktight seal of the transfer enclosure.

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II. **Operational Restrictions**

1. None

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

1. The permittee shall perform daily checks when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions of fugitive dust from any non-stack egress point (e.g. openings in 3-sided building, windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible particulate emissions of fugitive dust shall be noted in an operations log. If visible particulate emissions of fugitive dust are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible particulate emission incident; and
 - e. any corrective actions taken to minimize or eliminate the visible fugitive particulate emissions.

Persons responsible for making visible emission observations should acquire basic training in the general principles and practices of "reading" opacity. At a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, observer position relative to lighting, wind, and the presence of uncombined water.

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IV. **Reporting Requirements**

1. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions of fugitive dust were observed from this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions of fugitive dust. These reports shall be submitted to the Canton City Health Department (CCHD), Air Pollution Control Division (APCD) by January 31 and July 31 of each year and shall cover the previous 6-month period.
2. All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

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V. **Testing Requirements**

1. Compliance with the emission limitation in section A.I.2 of these terms and conditions shall be determined in accordance with the following method:
 - a. Emission Limitation:
 - 20% opacity as a 3-minute average for fugitive emissions

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3). The points of observation for visible particulate emissions of fugitive dust shall include all points of the transfer operation.

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 1576000074 Emissions Unit ID: F011 Issuance type: Title V Draft Permit

B. State Enforceable Section

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

- 1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions		
1. None		

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II. **Operational Restrictions**

- 1. None

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

- 1. None

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IV. **Reporting Requirements**

- 1. None

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V. **Testing Requirements**

- 1. None

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VI. **Miscellaneous Requirements**

- 1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 1576000074 Emissions Unit ID: F012 Issuance type: Title V Draft Permit

A. State and Federally Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
raw slag drop from universal wobbler feeder (EU34) to crusher discharge belt (22B); and transfer from wobbler feeder to crusher (EU22)	OAC rule 3745-17-07(B)(1) OAC rule 3745-17-08(B)	See A.I.2.a below. See A.I.2.b below.

2. Additional Terms and Conditions

- a. Visible particulate emissions of fugitive dust from this emissions unit shall not exceed 20% opacity as a 3-minute average.
- b. The permittee shall employ reasonably available control measures in order to minimize or eliminate fugitive particulate emissions by an appropriate manner of material handling, including a 3-sided building enclosure, water spray application, and minimizing drop height when unloading and transferring slag. The slag shall have a minimum moisture content of 7%.

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II. Operational Restrictions

- 1. None

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III. Monitoring and/or Record Keeping Requirements

- 1. The permittee shall perform daily checks when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions of fugitive dust from any non-stack egress point (e.g. openings in 3-sided building, windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible particulate emissions of fugitive dust shall be noted in an operations log. If visible particulate emissions of fugitive dust are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible particulate emission incident; and
 - e. any corrective actions taken to minimize or eliminate the visible fugitive particulate emissions.

Persons responsible for making visible emission observations should acquire basic training in the general principles and practices of "reading" opacity. At a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, observer position relative to lighting, wind, and the presence of uncombined water.

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IV. Reporting Requirements

- 1. The permittee shall submit semiannual written reports which (a) identify all days during which any visible

particulate emissions of fugitive dust were observed from this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions of fugitive dust. These reports shall be submitted to the Canton City Health Department (CCHD), Air Pollution Control Division (APCD) by January 31 and July 31 of each year and shall cover the previous 6-month period.

2. All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

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V. **Testing Requirements**

1. Compliance with the emission limitation in section A.1.2 of these terms and conditions shall be determined in accordance with the following method:

a. Emission Limitation:

20% opacity as a 3-minute average for fugitive emissions

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3). The points of observation for visible particulate emissions of fugitive dust shall include any non-stack egress points from the building. Such egress points shall include, but are not limited to, openings in 3-sided buildings, doorways, windows, and roof monitors.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 1576000074 Emissions Unit ID: F012 Issuance type: Title V Draft Permit

B. State Enforceable Section

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

1. None.

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

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

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

1. None

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II. **Operational Restrictions**

1. None

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

1. None

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IV. **Reporting Requirements**

- 1. None

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V. **Testing Requirements**

- 1. None

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VI. **Miscellaneous Requirements**

- 1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 1576000074 Emissions Unit ID: P003 Issuance type: Title V Draft Permit

A. State and Federally Enforceable Section

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

- 1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
finish grinding mill circuit #1 for slag (SIC 3295) or alternatively clinker-gypsum (SIC 3241), all vented to baghouse #3 short (CD02), as follows:	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-07(B)(1)	See A.I.2.b below.
	OAC rule 3745-17-08(B)	See A.I.2.c below.
3 material weigh feeders, 10' open belt conveyors (08A), dropping onto 30' partially covered elevator feed belt (08B), dropping into 25' high mill feed bucket elevator (08C), into #1 F. L. Smidth ball finish mill (08D), to 16"x 50' canvas Airslide conveyor (08E), to 50' high recirculating feed bucket elevator (08F);	OAC rule 3745-17-11(B)	9.7 lbs/hr of particulate emissions when grinding slag 14.6 lbs/hr of particulate emissions when grinding clinker-gypsum
and, mobile bulk tanker (EU27) with pneumatic transfer to 10' x 10' dia. mill fringe/surge bin (08G) to 50' high recirculating feed bucket elevator (08F)		See A.I.2.e below.

2. **Additional Terms and Conditions**

- a. Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
- b. Visible particulate emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average. For purposes of verifying compliance with this requirement, the visible particulate emissions shall be observed at any non-stack egress point from the building housing this emissions unit. These egress points shall include, but not be limited to, doorways, windows, and roof monitors.

- c. The permittee shall minimize or eliminate visible particulate emissions of fugitive dust through the employment of reasonably available control measures (RACM). These measures shall include, but not be limited to, the following:
 - i. the installation and use of hoods, fans, and other equipment to adequately enclose, contain, capture, and vent the fugitive dust; and
 - ii. a collection efficiency that is sufficient to minimize or eliminate visible particulate emissions of fugitive dust at the point(s) of capture to the extent possible with good engineering design.

At a minimum, the permittee's employment of RACM shall include localized hooding over each transfer point.
- d. If the permittee can demonstrate compliance with the visible particulate emission restriction contained in section A.I.2.b above, the employment of the permittee's RACM, in accordance with the requirements of section A.I.2.c above, shall be deemed adequate.
- e. The uncontrolled mass rate of emissions (UMRE) for this emissions unit was determined by using the 1990 clinker-gypsum process (at 33.77 tons/hr) tested emission rate of 0.74 lb of particulates per hour, divided by an assumed (1 - BH Eff.) or 0.005, to give an UMRE of 148 lbs of particulates per hour. Having no emission test data to date for the alternative slag process, its UMRE may be approximated by multiplying the clinker-gypsum UMRE of 148 lbs of particulates per hour by the ratio of the process rate of 18 tons of slag per hour to 33.77 tons clinker-gypsum per hour to give an approximate UMRE of 78.89 lbs of particulates per hour. The allowable particulate limitations were determined from Figure II of OAC rule 3745-17-11.

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II. Operational Restrictions

- 1. The pressure drop across the baghouse shall be maintained within the range of 3.0 to 6.0 inches of water while the emissions unit is in operation, until a pressure drop range can be established during the next emissions testing required in section A.V.2.

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III. Monitoring and/or Record Keeping Requirements

- 1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.
- 2. The permittee shall perform daily checks when this emissions unit is in operation and when weather conditions allow, for any visible particulate emissions of fugitive dust from any non-stack (i.e., windows, doors, roof monitors) egress points in the building housing this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the location and color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

Persons responsible for making visible emission observations should acquire basic training in the general principles and practices of "reading" opacity. At a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, observer position relative to lighting, wind, and the presence of uncombined water.
- 3. The permittee shall maintain a maintenance log book that includes the following information:
 - a. the dates when the baghouse was checked for proper operation;
 - b. the dates when maintenance was performed and what the maintenance involved;
 - c. the dates of repairs made and what these repairs entailed;
 - d. a record of daily checks of pressure drops across the baghouse compartments when unit is in operation; and
 - e. a record of all deviations (excursions).

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IV. Reporting Requirements

- 1. The permittee shall submit quarterly 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 semiannual written reports which (a) identify all days during which any visible particulate emissions of fugitive dust were observed from this emissions unit and (b) describe any corrective

- actions taken to minimize or eliminate the visible particulate emissions of fugitive dust. These reports shall be submitted to the Canton City Health Department (CCHD), Air Pollution Control Division (APCD) by January 31 and July 31 of each year and shall cover the previous 6-month period.
3. The permittee shall submit deviation reports in accordance with the requirements specified in Part I - General Term and Condition A.1.c.
 4. All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

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V. Testing Requirements

1. Compliance with the emission limitations in section A.1.1 of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:

20% opacity as a 6-minute average for stack emissions

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible emission evaluations performed using 40 CFR Part 60, Appendix A, Method 9 and procedures specified in OAC rule 3745-17-03(B)(1).
 - b. Emission Limitation:

Visible particulate emissions of fugitive dust from this emissions unit shall not exceed 20% opacity as a 3-minute average.

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible emission evaluations performed using 40 CFR Part 60, Appendix A, Method 9 and procedures specified in OAC rule 3745-17-03(B)(3).
 - c. Emission Limitations:

7.9 lbs/hr of particulate emissions when grinding slag (SIC 3295)
14.6 lbs/hr of particulate emissions when grinding clinker-gypsum (SIC 3241)

Applicable Compliance Method:

Compliance shall be demonstrated based upon the emission testing requirements specified in section A.V.2 and the methods and procedures specified in OAC rule 3745-17-03(B)(10).
2. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
 - a. The emission testing shall be conducted within 18 months after issuance of the permit for grinding of clinker-gypsum, SIC 3241, and within 6 months prior to permit expiration.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate and visible limitation for particulates. Additionally, the pressure drop range across the baghouse shall be recorded and the current 3.0 to 6.0 inches of water operational requirement shall be adjusted, if necessary, to a more representative range by written notification to Canton City Health Department (CCHD), Air Pollution Control Division (APCD) within 60 days.
 - c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates: for particulates, Methods 1 through 5 of 40 CFR Part 60, Appendix A and for the visible particulate emission limitation, Method 9 of 40 CFR Part 60, Appendix A.
 - d. The tests shall be conducted while the emissions unit is operating at or near its maximum capacity of 36 TPH clinker-gypsum, or alternatively, of 18 TPH slag, unless otherwise specified or approved by the CCHD, APCD.
 - e. Particulate emission tests also shall be conducted at the inlet of the control device to determine the uncontrolled mass rate of emission for the emissions unit(s), for purposes of applying Figure II of OAC rule 3745-17-11. For this testing, Methods 1 through 5 of 40 CFR Part 60, Appendix A shall be employed. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the CCHD, APCD. 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 CCHD, APCD's refusal to accept the results of the emission test(s).

Personnel from the CCHD, APCD 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 emission test(s) shall be signed by the person or

persons responsible for the tests and submitted to the CCHD, APCD within 30 days following completion of the test (s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the CCHD, APCD.

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 1576000074 Emissions Unit ID: P003 Issuance type: Title V Draft Permit

B. State Enforceable Section

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

- 1. None.

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

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

	<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: 1576000074 Emissions Unit ID: P004 Issuance type: Title V Draft Permit

A. State and Federally Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
transfer of bulk slag/cement via retractable loading spout from one of six Station #4 silos to tanker truck at Bay D scale vented to baghouse #7 (CD05)	OAC rule 3745-17-07(B)(1)	See A.I.2.a below.
	OAC rule 3745-17-08(B)	See A.I.2.b below.
	OAC rule 3745-17-07(A)	See A.I.2.c below.
	OAC rule 3745-17-11(B)	5.8 lbs/hr of particulate emissions

2. Additional Terms and Conditions

- a. Visible particulate emissions of fugitive dust from this emissions unit shall not exceed 20% opacity as a 3-minute average.
- b. The permittee shall employ reasonably available control measures in order to minimize or eliminate visible particulate emissions of fugitive dust by an appropriate manner of material handling, including the silo loadout spout covering and minimizing drop height when transferring slag or cement to a bulk tanker truck.
- c. Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
- d. The uncontrolled mass rate of emissions (UMRE) for this emissions unit was determined by using the FIRE version 5.0 emission factor of 0.2 lb of PM10 particulates per ton of cement loadout material transfer from SCC 3-05-006-19, SIC 3241. (No emission factor could be found for granulated blast furnace slag glass, SIC 3295 minerals, ground or treated.) Multiplying this factor by the maximum process rate of 150 tons per hour, and correcting to PM from PM10 by dividing by 0.85, results in an UMRE of 36 lbs of particulates per hour. The allowable particulate limitation was determined from Figure II of OAC rule 3745-17-11.

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II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 3.0 to 6.0 inches of water while the emissions unit is in operation.

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.
2. The permittee shall perform daily checks when this emissions unit is in operation and when weather conditions allow, for any visible particulate emissions of fugitive dust from any non-stack (i.e., windows, doors, roof monitors) egress points in the building housing this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

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

Persons responsible for making visible emission observations should acquire basic training in the general principles and practices of "reading" opacity. At a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, observer position relative to lighting, wind, and the presence of uncombined water.

3. The permittee shall maintain a maintenance log book that includes the following information:
 - a. the dates when the baghouse was checked for proper operation;
 - b. the dates when maintenance was performed and what the maintenance involved;
 - c. the dates of repairs made and what these repairs entailed;
 - d. a record of daily checks of pressure drops across the baghouse compartments when unit is in operation; and
 - e. a record of all deviations (excursions).

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IV. Reporting Requirements

1. The permittee shall submit quarterly 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 semiannual written reports which (a) identify all days during which any visible particulate emissions of fugitive dust were observed from this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions of fugitive dust. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
3. The permittee shall submit deviation reports in accordance with the requirements specified in Part I - General Term and Condition A.1.c.
4. All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

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V. Testing Requirements

1. Compliance with the emission limitations in section A.1.1 and A.1.2 shall be determined in accordance with the following methods:
 - a. Emission Limitation:

5.8 lbs/hr of particulate emissions

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon the emission testing procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5 and OAC rule 3745-17-03(B)(10).
 - b. Emission Limitation:

Visible particulate emissions of fugitive dust from this emissions unit shall not exceed 20% opacity as a 3-minute average.

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible emission evaluations performed using 40 CFR Part 60, Appendix A, Method 9 and procedures specified in OAC rule 3745-17-03(B)(3).
 - c. Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible emission evaluations performed using 40 CFR Part 60, Appendix A, Method 9 and procedures specified in OAC rule 3745-17-03(B)(1).

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VI. Miscellaneous Requirements

- 1. None

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Facility ID: 1576000074 Emissions Unit ID: P004 Issuance type: Title V Draft Permit

B. State Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

	<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: 1576000074 Emissions Unit ID: P012 Issuance type: Title V Draft Permit

A. State and Federally Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
finish grinding mill circuit #2 for slag (SIC 3295) or alternatively clinker-gypsum (SIC 3241), all vented to baghouse #1 short (CD01), as follows:	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-07(B)(1)	See A.I.2.b below.
	OAC rule 3745-17-08(B)	See A.I.2.c below.
3 material weigh feeders, 10' open belt conveyors (07A), dropping onto 30' partially covered elevator feed belt (07B), dropping into 25' high mill feed bucket elevator (07C), into #1 F. L. Smidth ball finish mill (07D), to 16"x 50' canvas Airlslide conveyor (07E), to 50' high recirculating feed bucket elevator (07F);	OAC rule 3745-17-11(B)	9.7 lbs/hr of particulate emissions when grinding slag 14.6 lbs/hr of particulate emissions when grinding clinker-gypsum
and, mobile bulk tanker (EU27) with pneumatic transfer to 10' x 10' dia. mill fringe/surge bin (07G) to 50' high recirculating feed bucket elevator (07F)		See A.I.2.e below.

2. Additional Terms and Conditions

- a. Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
- b. Visible particulate emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average. For purposes of verifying compliance with this requirement, the visible particulate emissions shall be observed at any non-stack egress point from the building housing this emissions unit. These egress points shall include, but not be limited to, doorways, windows, and roof monitors.
- c. The permittee shall minimize or eliminate visible particulate emissions of fugitive dust through the employment of reasonably available control measures (RACM). These measures shall include, but not be limited to, the following:
 - i. the installation and use of hoods, fans, and other equipment to adequately enclose, contain, capture, and vent the fugitive dust; and
 - ii. a collection efficiency that is sufficient to minimize or eliminate visible particulate emissions of fugitive dust at the point(s) of capture to the extent possible with good engineering design.

At a minimum, the permittee's employment of RACM shall include localized hooding over each transfer point.
- d. If the permittee can demonstrate compliance with the visible particulate emission restriction contained in section A.I.2.b above, the employment of the permittee's RACM, in accordance with the requirements of section A.I.2.c above, shall be deemed adequate.
- e. The uncontrolled mass rate of emissions (UMRE) for this emissions unit was determined by using the 1990 clinker-gypsum process (at 33.77 tons per hour) tested emission rate of 0.74 lb of particulates per hour, divided by an assumed (1 - BH Eff.) or 0.005, to give an UMRE of 148 lbs of particulates per hour. Having no emission test data to date for the alternative slag process, it's UMRE may be approximated by multiplying the clinker-gypsum UMRE of 148 lbs of particulates per hour by the ratio of the process rate of 18 tons of slag per hour to 33.77 tons clinker-gypsum per hour to give an approximate UMRE of 78.89 lbs of particulates per hour. The allowable particulate limitations were determined from Figure II of OAC rule 3745-17-11.

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II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 3.0 to 6.0 inches of water

while the emissions unit is in operation, until a pressure drop range can be established during the next emission testing required in section A.V.2.

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.
2. The permittee shall perform daily checks when this emissions unit is in operation and when weather conditions allow, for any visible particulate emissions of fugitive dust from any non-stack (i.e., windows, doors, roof monitors) egress points in the building housing this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the location and color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

Persons responsible for making visible emission observations should acquire basic training in the general principles and practices of "reading" opacity. At a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, observer position relative to lighting, wind, and the presence of uncombined water.

3. The permittee shall maintain a maintenance log book that includes the following information:
 - a. the dates when the baghouse was checked for proper operation;
 - b. the dates when maintenance was performed and what the maintenance involved;
 - c. the dates of repairs made and what these repairs entailed;
 - d. a record of daily checks of pressure drops across the baghouse compartments when unit is in operation; and
 - e. a record of all deviations (excursions).

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IV. Reporting Requirements

1. The permittee shall submit quarterly 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 semiannual written reports which (a) identify all days during which any visible particulate emissions of fugitive dust were observed from this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions of fugitive dust. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
3. The permittee shall submit deviation reports in accordance with the requirements specified in Part I - General Term and Condition A.1.c.
4. All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

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V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 and A.I.2 of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:

20% opacity as a 6-minute average for stack emissions

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible emission evaluations performed using 40 CFR Part 60, Appendix A, Method 9 and procedures specified in OAC rule 3745-17-03(B)(1).
 - b. Emission Limitation:

Visible particulate emissions of fugitive dust from this emissions unit shall not exceed 20% opacity as a 3-minute average.

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible emission evaluations performed using 40 CFR Part 60, Appendix A, Method 9 and procedures specified in OAC rule 3745-17-03(B)(3).

c. Emission Limitations:

7.9 lbs/hr of particulate emissions when grinding slag (SIC 3295)
14.6 lbs/hr of particulate emissions when grinding clinker-gypsum (SIC 3241)

Applicable Compliance Method:

Compliance shall be demonstrated based upon the emission testing requirements specified in section A.V.2 and the methods and procedures specified in OAC rule 3745-17-03(B)(10).

2. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

a. The emission testing shall be conducted within 6 months after issuance of the permit for grinding of slag, SIC 3295, and within 18 months prior to permit expiration.

b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate and visible emission limitations for particulates. Additionally, the pressure drop range across the baghouse shall be recorded and the current 3.0 to 6.0 inches of water operational requirement shall be adjusted, if necessary, to a more representative range by written notification to Canton City Health Department (CCHD), Air Pollution Control Division (APCD) within 60 days.

c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates: for particulates, Methods 1 through 5 of 40 CFR Part 60, Appendix A and for the visible particulate emission limitations, Method 9 of 40 CFR Part 60, Appendix A.

d. The tests shall be conducted while the emissions unit is operating at or near its maximum capacity of 36 TPH clinker-gypsum, or alternatively, of 18 TPH slag, unless otherwise specified or approved by the CCHD, APCD.

e. Particulate emission tests also shall be conducted at the inlet of the control device to determine the uncontrolled mass rate of emission for the emissions unit(s), for purposes of applying Figure II of OAC rule 3745-17-11. For this testing, Methods 1 through 5 of 40 CFR Part 60, Appendix A shall be employed.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the CCHD, APCD. 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 CCHD, APCD's refusal to accept the results of the emission test(s).

Personnel from the CCHD, APCD 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 emission test(s) shall be signed by the person or persons responsible for the tests and submitted to the CCHD, APCD within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the CCHD, APCD.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 1576000074 Emissions Unit ID: P012 Issuance type: Title V Draft Permit

B. State Enforceable Section

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

1. None.

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

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

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

1. None

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II. **Operational Restrictions**

1. None

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

1. None

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IV. **Reporting Requirements**

1. None

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V. **Testing Requirements**

1. None

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VI. **Miscellaneous Requirements**

1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 1576000074 Emissions Unit ID: P016 Issuance type: Title V Draft Permit

A. State and Federally Enforceable Section

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

1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
21.4 tons/hr pneumatic transfer of cement/slag from bulk tanker truck to rail car controlled by a portable Pulsair fabric filter baghouse CD17	OAC rule 3745-31-05(A)(3) (PTI 15-1381)	0.02 grain of particulate emissions per actual cubic foot of exhaust gases
		0.34 lb/hr of particulate emissions

1.49 tpy of particulate emissions

See A.I.2.a and A.I.2.b below.

See A.I.2.c below.

OAC rule 3745-17-07(A)

See A.I.2.c below.

OAC rule 3745-17-07(B)(1)

See A.I.2.c below.

OAC rule 3745-17-08(B)

See A.I.2.c below.

OAC rule 3745-17-11(B)(1)

See A.I.2.c below.

40 CFR Part 60, Subpart F

2. Additional Terms and Conditions

- a. There shall be no visible particulate emissions of fugitive dust from this emissions unit.
- b. Visible particulate emissions from any stack shall not exceed 5% opacity as a 6-minute average.
- c. The emission limitation(s) required by this applicable rule is (are) less stringent than the emission limitation established pursuant to the best available technology requirement specified in OAC rule 3745-31-05(A)(3).

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II. Operational Restrictions

1. The pressure drop across the fabric filter baghouse shall be maintained within the range of 3.0 to 6.0 inches of water while the emissions unit is in operation.

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to continuously monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis when the emissions unit is in operation.
2. The permittee shall perform daily checks when this emissions unit is in operation and when weather conditions allow, for any visible particulate emissions of fugitive dust from any non-stack (i.e., windows, doors, roof monitors) egress points in the building housing this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the location and color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

Persons responsible for making visible emission observations should acquire basic training in the general principles and practices of "reading" opacity. At a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, observer position relative to lighting, wind, and the presence of uncombined water.

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IV. Reporting Requirements

1. The permittee shall submit quarterly 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 semiannual written reports which (a) identify all days during which any visible particulate emissions of fugitive dust were observed from this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions of fugitive dust. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
3. The permittee shall also submit annual reports that specify the total particulate emissions for this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.
4. The permittee shall submit deviation reports in accordance with the requirements specified in Part I - General Term and Condition A.1.c.

5. All deviation (excursion) reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

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V. **Testing Requirements**

1. Compliance with the emission limitations in section A.I.1 and A.I.2 of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitations:

0.02 grain of particulate emissions per actual cubic foot of exhaust gases
0.34 lb/hr of particulate emissions

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon the emission testing procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5.
 - b. Emission Limitation:

1.49 tpy of particulate emissions

Applicable Compliance Method:

This emission limitation was established by multiplying the hourly allowable particulate emission limitation by 8760 hours of operation during the year, and then dividing by 2000 lbs/ton. Compliance with this emission limitation can be assumed provided that the permittee complies with the hourly particulate emission limitation.
 - c. Emission Limitation:

no visible particulate emissions of fugitive dust

Applicable Compliance Method:

Compliance shall be demonstrated based upon the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 22.
 - d. Emission Limitation:

5% opacity as a 6-minute average for stack emissions

Applicable Compliance Method:

Compliance shall be demonstrated based upon the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 9.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 1576000074 Emissions Unit ID: P016 Issuance type: Title V Draft Permit

B. State Enforceable Section

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

1. None.

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

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the

applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

- | <u>Operations, Property, and/or Equipment</u> | <u>Applicable Rules/Requirements</u> | <u>Applicable Emissions Limitations/Control Measures</u> |
|---|--------------------------------------|--|
| 2. Additional Terms and Conditions | | |
| 1. None | | |

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II. Operational Restrictions

1. None

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III. Monitoring and/or Record Keeping Requirements

1. None

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IV. Reporting Requirements

1. None

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V. Testing Requirements

1. None

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VI. Miscellaneous Requirements

1. None

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Facility ID: 1576000074 Issuance type: Title V Draft Permit

Part III - Terms and Conditions for Emissions Units

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Facility ID: 1576000074 Emissions Unit ID: P017 Issuance type: Title V Draft Permit

A. State and Federally Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
air separator west #2 (09A), Sturtevant (16' dia.) supplied with finish mill slag (SIC 3295) or finish mill clinker- gypsum (SIC 3241) via a recirculating feed bucket elevator (07F) and discharging into a finish mill cement cooler tank #2 (09B), supplying #2	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-07(B)(1)	See A.I.2.b below.
	OAC rule 3745-17-08(B)	See A.I.2.c below.

F-K pneumatic pump (14A); and	OAC rule 3745-17-11(B)	8.2 lbs/hr of particulate emissions when grinding slag (SIC 3295)
air separator west #2 (09A), Sturtevant (16' dia.) transfer to #2 finish grinding mill (07D), all vented to baghouse #2 long (CD03)		12.3 lbs/hr of particulate emissions when grinding clinker-gypsum (SIC 3241)
		See A.I.2.e below.

2. **Additional Terms and Conditions**

- a. Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
- b. Visible particulate emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average. For purposes of verifying compliance with this requirement, the visible particulate emissions shall be observed at any non-stack egress point from the building housing this emissions unit. These egress points shall include, but not be limited to, doorways, windows, and roof monitors.
- c. The permittee shall minimize or eliminate visible particulate emissions of fugitive dust through the employment of reasonably available control measures (RACM). These measures shall include, but not be limited to, the following:
 - i. the installation and use of hoods, fans, and other equipment to adequately enclose, contain, capture, and vent the fugitive dust; and
 - ii. a collection efficiency that is sufficient to minimize or eliminate visible particulate emissions of fugitive dust at the point(s) of capture to the extent possible with good engineering design.

At a minimum, the permittee's employment of RACM shall include localized hooding over each transfer point.
- d. If the permittee can demonstrate compliance with the visible emissions restriction contained in section A.I.2.b above, the employment of the permittee's RACM, in accordance with the requirements of section A.I.2.c above, will be deemed adequate.
- e. The uncontrolled mass rate of emissions (UMRE) for this emissions unit was determined by using the 1990 clinker-gypsum process (at 33.77 tons per hour) tested emission rate of 0.57 lb of particulates per hour, divided by an assumed (1 - BH Eff.) or 0.005, to give an UMRE of 114 lbs of particulates per hour. Having no emission test data to date for the alternative slag process, it's UMRE may be approximated by multiplying the clinker-gypsum UMRE of 114 lbs of particulates per hour by the ratio of the process rate of 18 tons of slag per hour to 33.77 tons of clinker-gypsum per hour to give an approximate UMRE of 60.8 lbs of particulates per hour. The allowable particulate limitations were determined from Figure II of OAC rule 3745-17-11.

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II. **Operational Restrictions**

1. The pressure drop across the baghouse shall be maintained within the range of 3.0 to 6.0 inches of water while the emissions unit is in operation, until a pressure drop range can be established during the next emission testing required in section A.V.2.

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

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.
2. The permittee shall perform daily checks when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions of fugitive dust from any non-stack (i.e., windows, doors, roof monitors) egress points in the building housing this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the location and color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

Persons responsible for making visible emission observations should acquire basic training in the general principles and practices of "reading" opacity. At a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, observer position relative to lighting, wind, and the presence of uncombined water.

3. The permittee shall maintain a maintenance log book that includes the following information:

- a. the dates when the baghouse was checked for proper operation;
- b. the dates when maintenance was performed and what the maintenance involved;
- c. the dates of repairs made and what these repairs entailed;
- d. a record of daily checks of pressure drops across the baghouse compartments when unit is in operation; and
- e. a record of all deviations (excursions).

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IV. Reporting Requirements

1. The permittee shall submit quarterly 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 semiannual written reports which (a) identify all days during which any visible particulate emissions of fugitive dust were observed from this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions of fugitive dust. These reports shall be submitted to the Canton City Health Department (CCHD), Air Pollution Control Division (APCD) by January 31 and July 31 of each year and shall cover the previous 6-month period.
3. The permittee shall submit deviation reports in accordance with the requirements specified in Part I - General Term and Condition A.1.c.
4. All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

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V. Testing Requirements

1. Compliance with the emission limitations in sections A.I.1 and A.I.2 of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:

20% opacity as a 6-minute average for stack emissions

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible emission evaluations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).
 - b. Emission Limitation:

Visible particulate emissions of fugitive dust from this emissions unit shall not exceed 20% opacity as a 3-minute average.

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible emission evaluations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).
 - c. Emission Limitations:

8.2 lbs/hr particulate emissions from grinding slag, SIC 3295
12.3 lbs/hr particulate emissions from grinding clinker-gypsum, SIC 3241

Applicable Compliance Method:

Compliance shall be demonstrated based upon the emission testing requirements in section A.V.2 and the methods and procedures specified in OAC rule 3745-17-03(B)(10).
2. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
 - a. The emission testing shall be conducted within 6 months after issuance of the permit for grinding of slag, SIC 3295, and within 18 months prior to permit expiration.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate and visible emission limitations for particulates. Additionally, the pressure drop range across the baghouse shall be recorded and the current 3.0 to 6.0 inches of water operational requirement shall be adjusted, if necessary, to a more representative range by written notification to CCHD, APCD within 60 days.
 - c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates: for particulates, Methods 1 through 5 of 40 CFR Part 60, Appendix A and for the visible particulate emission limitations, Method 9 of 40 CFR Part 60, Appendix A.
 - d. The tests shall be conducted while the emissions unit is operating at or near its maximum capacity of 18 TPH of slag, or alternatively, of 36 TPH of clinker-gypsum, unless otherwise specified or approved by the

CCHD, APCD.

e. Particulate emission tests also shall be conducted at the inlet of the control device to determine the uncontrolled mass rate of emission for the emissions unit, for purposes of applying Figure II of OAC rule 3745-17-11. For this testing, Methods 1 through 5 of 40 CFR Part 60, Appendix A shall be employed.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the CCHD, APCD. 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 CCHD, APCD's refusal to accept the results of the emission test(s).

Personnel from the CCHD, APCD 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 emission test(s) shall be signed by the person or persons responsible for the tests and submitted to the CCHD, APCD within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the CCHD, APCD.

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 1576000074 Emissions Unit ID: P017 Issuance type: Title V Draft Permit

B. State Enforceable Section

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

- 1. None.

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

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

	<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: 157600074 Emissions Unit ID: P018 Issuance type: Title V Draft Permit

A. State and Federally Enforceable Section

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

- 1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
air separator east #1 (10A), Sturtevant (16' dia.) supplied with finish mill slag (SIC 3295) or finish mill clinker- gypsum (SIC 3241) via a recirculating feed bucket elevator (08F) and discharging into a finish mill cement cooler tank #1 (10B), supplying #1 F-K pneumatic pump (15A); and	OAC rule 3745-17-07(A)	See A.I.2.a below.
	OAC rule 3745-17-07(B)(1)	See A.I.2.b below.
	OAC rule 3745-17-08(B)	See A.I.2.c below.
	OAC rule 3745-17-11(B)	8.2 lbs/hr of particulate emissions when grinding slag (SIC 3295)
air separator east #1 (10A), Sturtevant (16' dia.) transfer to #1 finish grinding mill (08D), all vented to baghouse #4 long (CD04)		12.3 lbs/hr of particulate emissions when grinding clinker-gypsum (SIC 3241)
		See A.I.2.e below.

2. **Additional Terms and Conditions**

- a. Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
- b. Visible particulate emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average. For purposes of verifying compliance with this requirement, the visible particulate emissions shall be observed at any non-stack egress point from the building housing this emissions unit. These egress points shall include, but not be limited to, doorways, windows, and roof monitors.
- c. The permittee shall minimize or eliminate visible particulate emissions of fugitive dust through the employment of reasonably available control measures (RACM). These measures shall include, but not be limited to, the following:
 - i. the installation and use of hoods, fans, and other equipment to adequately enclose, contain, capture, and vent the fugitive dust; and
 - ii. a collection efficiency that is sufficient to minimize or eliminate visible particulate emissions of fugitive dust at the point(s) of capture to the extent possible with good engineering design.

At a minimum, the permittee's employment of RACM shall include localized hooding over each transfer point.

- d. If the permittee can demonstrate compliance with the visible emissions restriction contained in section A.I.2.b above, the employment of the permittee's RACM, in accordance with the requirements of section A.I.2.c above, will be deemed adequate.
- e. The uncontrolled mass rate of emissions (UMRE) for this emissions unit was determined by using the 1990 clinker-gypsum process (at 33.77 tons per hour) tested emission rate of 0.57 lb of particulates per hour, divided by an assumed (1 - BH Eff.) or 0.005, to give an UMRE of 114 lbs of particulates per hour. Having no emission test data to date for the alternative slag process, its UMRE may be approximated by multiplying the clinker-gypsum UMRE of 114 lbs of particulates per hour by the ratio of the process rate of 18 tons of slag per hour to 33.77 tons of clinker-gypsum per hour to give an approximate UMRE of 60.8 lbs of particulates per hour. The allowable particulate limitations were determined from Figure II of OAC rule 3745-17-11.

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II. Operational Restrictions

- 1. The pressure drop across the baghouse shall be maintained within the range of 3.0 to 6.0 inches of water while the emissions unit is in operation, until a pressure drop range can be established during the next emission testing required in section A.V.2.

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III. Monitoring and/or Record Keeping Requirements

- 1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.
- 2. The permittee shall perform daily checks when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions of fugitive dust from any non-stack (i.e., windows, doors, roof monitors) egress points in the building housing this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the location and color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

Persons responsible for making visible emission observations should acquire basic training in the general principles and practices of "reading" opacity. At a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, observer position relative to lighting, wind, and the presence of uncombined water.

- 3. The permittee shall maintain a maintenance log book that includes the following information:
 - a. the dates when the baghouse was checked for proper operation;
 - b. the dates when maintenance was performed and what the maintenance involved;
 - c. the dates of repairs made and what these repairs entailed;
 - d. a record of daily checks of pressure drops across the baghouse compartments when unit is in operation; and
 - e. a record of all deviations (excursions).

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IV. Reporting Requirements

- 1. The permittee shall submit quarterly 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 semiannual written reports which (a) identify all days during which any visible particulate emissions of fugitive dust were observed from this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions of fugitive dust. These reports shall be submitted to the Canton City Health Department (CCHD), Air Pollution Control Division (APCD) by January 31 and July 31 of each year and shall cover the previous 6-month period.
- 3. The permittee shall submit deviation reports in accordance with the requirements specified in Part I - General Term and Condition A.1.c.
- 4. All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

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V. **Testing Requirements**

1. Compliance with the emission limitations in sections A.I.1 and A.I.2 of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:

20% opacity as a 6-minute average for stack emissions

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible emission evaluations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).
 - b. Emission Limitation:

Visible particulate emissions of fugitive dust from this emissions unit shall not exceed 20% opacity as a 3-minute average.

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible emission evaluations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).
 - c. Emission Limitations:

8.2 lbs/hr particulate emissions from grinding slag, SIC 3295
12.3 lbs/hr particulate emissions from grinding clinker-gypsum, SIC 3241

Applicable Compliance Method:

Compliance shall be demonstrated based upon the emission testing requirements in section A.V.2 and the methods and procedures specified in OAC rule 3745-17-03(B)(10).
2. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
 - a. The emission testing shall be conducted within 18 months after issuance of the permit for grinding of clinker-gypsum, SIC 3241, and within 6 months prior to permit expiration.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate and visible emission limitations for particulates. Additionally, the pressure drop range across the baghouse shall be recorded and the current 3.0 to 6.0 inches of water operational requirement shall be adjusted, if necessary, to a more representative range by written notification to CCHD, APCD within 60 days.
 - c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates: for particulates, Methods 1 through 5 of 40 CFR Part 60, Appendix A and for the visible particulate emission limitations, Method 9 of 40 CFR Part 60, Appendix A.
 - d. The tests shall be conducted while the emissions unit is operating at or near its maximum capacity of 18 TPH of slag, or alternatively, of 36 TPH of clinker-gypsum, unless otherwise specified or approved by the CCHD, APCD.
 - e. Particulate emission tests also shall be conducted at the inlet of the control device to determine the uncontrolled mass rate of emission for the emissions unit, for purposes of applying Figure II of OAC rule 3745-17-11. For this testing, Methods 1 through 5 of 40 CFR Part 60, Appendix A shall be employed. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the CCHD, APCD. 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 CCHD, APCD's refusal to accept the results of the emission test(s).

Personnel from the CCHD, APCD 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 emission test(s) shall be signed by the person or persons responsible for the tests and submitted to the CCHD, APCD within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the CCHD, APCD.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 1576000074 Emissions Unit ID: P018 Issuance type: Title V Draft Permit

B. State Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

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II. Operational Restrictions

- 1. None

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III. Monitoring and/or Record Keeping Requirements

- 1. None

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IV. Reporting Requirements

- 1. None

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V. Testing Requirements

- 1. None

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VI. Miscellaneous Requirements

- 1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 1576000074 Emissions Unit ID: P019 Issuance type: Title V Draft Permit

A. State and Federally Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
transfer of bulk slag and/or cement using F-K pneumatic pump #1 (and/or pump #2) and Bessemer cement truck unloading to six Station #4 storage silos vented to baghouse # 5 (CD08)	OAC rule 3745-17-07(B)(1)	See A.I.2.a below.
	OAC rule 3745-17-08(B)	See A.I.2.b below.
	OAC rule 3745-17-07(A)	See A.I.2.c below.
	OAC rule 3745-17-11(B)	3.2 lbs/hr of particulate emissions for slag processing 4.5 lbs/hr of particulate emissions for cement processing See A.I.2.d below.

2. Additional Terms and Conditions

- a. Visible particulate emissions of fugitive dust from this emissions unit shall not exceed 20% opacity as a 3-minute average.
- b. The permittee shall employ reasonably available control measures in order to minimize or eliminate visible particulate emissions of fugitive dust by an appropriate manner of material handling, including the full enclosure of transfer lines.
- c. Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
- d. The uncontrolled mass rate of emissions (UMRE) for this emissions unit was determined by using the AP-42, Table 11.12-2 emission factor of 0.27 lb of particulates per ton of cement loadout material transfer from SCC 3-05-011-07, SIC 3241. (No emission factor could be found for granulated blast furnace slag glass, SIC 3295 minerals, ground or treated.) Multiplying this factor by the maximum cement process rate of 72 tons per hour plus 16.7 tons per hour truck cement (88.7 total) results in an UMRE of 23.9 lbs of particulates per hour for cement processing. Multiplying this factor by the maximum slag process rate of 36 tons per hour plus 16.7 tons/hr truck cement (total 52.7) results in an UMRE of 14.2 lbs of particulates per hour. The allowable particulate limitations were determined from Figure II of OAC rule 3745-17-11.

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II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 3.0 to 6.0 inches of water while the emissions unit is in operation.

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.
2. The permittee shall perform daily checks when this emissions unit is in operation and when weather conditions allow, for any visible particulate emissions of fugitive dust from any non-stack (i.e., windows, doors, roof monitors) egress points in the building housing this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the location and color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

Persons responsible for making visible emission observations should acquire basic training in the general principles and practices of "reading" opacity. At a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting,

observer position relative to lighting, wind, and the presence of uncombined water.

3. The permittee shall maintain a maintenance log book that includes the following information:
 - a. the dates when the baghouse was checked for proper operation;
 - b. the dates when maintenance was performed and what the maintenance involved;
 - c. the dates of repairs made and what these repairs entailed;
 - d. a record of daily checks of pressure drops across the baghouse compartments when unit is in operation; and
 - e. a record of all deviations (excursions).

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IV. Reporting Requirements

1. The permittee shall submit quarterly 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 semiannual written reports which (a) identify all days during which any visible particulate emissions of fugitive dust were observed from this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions of fugitive dust. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
3. The permittee shall submit deviation reports in accordance with the requirements specified in Part I - General Term and Condition A.1.c.
4. All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

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V. Testing Requirements

1. Compliance with the emission limitations in section A.1.1 and A.1.2 shall be determined in accordance with the following methods:
 - a. Emission Limitations:
 - 3.2 lbs/hr of particulate emissions for slag processing
 - 4.5 lbs/hr of particulate emissions for cement processingApplicable Compliance Method:

If required, compliance shall be demonstrated based upon the emission testing procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5 and OAC rule 3745-17-03(B)(10).
 - b. Emission Limitation:

Visible particulate emissions of fugitive dust from this emissions unit shall not exceed 20% opacity as a 3-minute average.

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible emission evaluations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).
 - c. Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible emission evaluations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

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VI. Miscellaneous Requirements

1. None

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Facility ID: 1576000074 Emissions Unit ID: P019 Issuance type: Title V Draft Permit

B. State Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions		
1. None		

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II. Operational Restrictions

1. None

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III. Monitoring and/or Record Keeping Requirements

1. None

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IV. Reporting Requirements

1. None

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V. Testing Requirements

1. None

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VI. Miscellaneous Requirements

1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 1576000074 Emissions Unit ID: P020 Issuance type: Title V Draft Permit

A. State and Federally Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
transfer of bulk slag/cement via retractable loading spout from one of six Station #4 silos to tanker truck at Bay C scale vented to baghouse #6 (CD10)	OAC rule 3745-17-07(B)(1)	See A.I.2.a below.
	OAC rule 3745-17-08(B)	See A.I.2.b below.
	OAC rule 3745-17-07(A)	See A.I.2.c below.
	OAC rule 3745-17-11(B)	5.8 lbs/hr of particulate emissions

2. Additional Terms and Conditions

- a. Visible particulate emissions of fugitive dust from this emissions unit shall not exceed 20% opacity as a 3-minute average.
- b. The permittee shall employ reasonably available control measures in order to minimize or eliminate visible particulate emissions of fugitive dust by an appropriate manner of material handling, including the silo loadout spout covering and minimizing drop height when transferring slag or cement to a bulk tanker truck.
- c. Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
- d. The uncontrolled mass rate of emissions (UMRE) for this emissions unit was determined by using the FIRE version 5.0 emission factor of 0.2 lb of PM10 particulates per ton of cement loadout material transfer from SCC 3-05-006-19, SIC 3241. (No emission factor could be found for granulated blast furnace slag glass, SIC 3295 minerals, ground or treated.) Multiplying this factor by the maximum process rate of 150 tons per hour, and correcting to PM from PM10 by dividing by 0.85, results in an UMRE of 36 lbs of particulates per hour. The allowable particulate limitation was determined from Figure II of OAC rule 3745-17-11.

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II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 3.0 to 6.0 inches of water while the emissions unit is in operation.

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.
2. The permittee shall perform daily checks when this emissions unit is in operation and when weather conditions allow, for any visible particulate emissions of fugitive dust from any non-stack (i.e., windows, doors, roof monitors) egress points in the building housing this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the location and color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

Persons responsible for making visible emission observations should acquire basic training in the general principles and practices of "reading" opacity. At a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, observer position relative to lighting, wind, and the presence of uncombined water.

3. The permittee shall maintain a maintenance log book that includes the following information:
 - a. the dates when the baghouse was checked for proper operation;
 - b. the dates when maintenance was performed and what the maintenance involved;
 - c. the dates of repairs made and what these repairs entailed;
 - d. a record of daily checks of pressure drops across the baghouse compartments when unit is in operation; and

- e. a record of all deviations (excursions).

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IV. **Reporting Requirements**

1. The permittee shall submit quarterly 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 semiannual written reports which (a) identify all days during which any visible particulate emissions of fugitive dust were observed from this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions of fugitive dust. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
3. The permittee shall submit deviation reports in accordance with the requirements specified in Part I - General Term and Condition A.1.c.
4. All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

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V. **Testing Requirements**

1. Compliance with the emission limitations in section A.1.1 and A.1.2 shall be determined in accordance with the following methods:
 - a. Emission Limitation:
5.8 lbs/hr of particulate emissions

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon the emission testing procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5 and OAC rule 3745-17-03(B)(10).
 - b. Emission Limitation:

Visible particulate emissions of fugitive dust from this emissions unit shall not exceed 20% opacity as a 3-minute average.

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible emission evaluations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).
 - c. Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible emission evaluations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 1576000074 Emissions Unit ID: P020 Issuance type: Title V Draft Permit

B. State Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions		
1. None		

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II. Operational Restrictions

- 1. None

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III. Monitoring and/or Record Keeping Requirements

- 1. None

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IV. Reporting Requirements

- 1. None

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V. Testing Requirements

- 1. None

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VI. Miscellaneous Requirements

- 1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 1576000074 Emissions Unit ID: P023 Issuance type: Title V Draft Permit

A. State and Federally Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
slag material transfer (80 tph max) from Jeffrey 24" x 133' bypass belt conveyor D27 (vents 1000 cfm to baghouse # 10, CD14) to Jeffrey 24" x 180' discharge belt conveyor (1/3 inside dryer discharge building) D25 (vents 3000 cfm to baghouse #10, CD14) to ladder chute discharging inside crane storage building.	OAC rule 3745-17-07(B)(1) OAC rule 3745-17-08(B) OAC rule 3745-17-07(A)(1) OAC rule 3745-17-11(B)	See A.2.a below. See A.2.b below. See A.2.c below. 2.82 lbs/hr of particulates See A.2.d below.
2. Additional Terms and Conditions		
a.	Visible particulate emissions of fugitive dust from this emissions unit shall not exceed 20% opacity, as a 3-minute average.	
b.	The permittee shall employ reasonably available control measures in order to minimize or eliminate fugitive particulate emissions by an appropriate manner of material handling, including the full enclosure of transfer lines.	
c.	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.	
d.	The uncontrolled mass rate of emissions (UMRE) for this emissions unit was determined by using the FIRE version 5.0 emissions factor of 0.15 lb of PM10 particulates per ton of cement raw material transfer from SCC 3-05-027-20, SIC 3241. (No emission factor could be found for granulated blast furnace slag glass, SIC 3295 minerals, ground or treated.) Multiplying this factor by the maximum process rate of 80 tons/hr and correcting to PM from PM10 by dividing by 0.85 results in an UMRE of 14.12 lbs of particulates per hour. The allowable particulates limit was determined from Figure II of OAC rule 3745-17-11.	

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II. Operational Restrictions

- The pressure drop across the baghouse shall be maintained between 3.0 to 6.0 inches of water while the emissions unit is in operation, until a pressure drop range that is more representative of actual operating conditions shall be established during the next emissions testing required in A.V.2.

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III. Monitoring and/or Record Keeping Requirements

- The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis when unit is in operation.
- The permittee shall maintain a record of occurrences during which visible fugitive emissions, on a 3-minute average, exceeded 20% opacity.
- The permittee shall maintain a record of occurrences during which visible emissions from any stack, on a 6-minute average, exceeded 20% opacity.
- Permittee shall maintain a Maintenance Log Book showing:
 - Dates when the baghouse was checked for proper operation.
 - Dates when maintenance was performed and what the maintenance involved.
 - Dates of repairs made and what these repairs entailed.
 - A record of daily checks of pressure drops across the baghouse compartments when unit is in operation.
 - A record of all deviations (excursions).

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IV. Reporting Requirements

- The permittee shall submit deviation reports in accordance with Part I - General Terms and Conditions, Section A.I.c.
- The permittee shall submit quarterly written deviation (excursion) reports which include the following:
 - The permittee shall submit pressure drop deviation reports that identify all periods of time during which the pressure drop across the baghouses did not comply with the pressure drops specified above.
 - Identify all periods of time visible fugitive emissions exceeded 20% opacity on a 3-minute average.
 - Identify all periods of time visible stack emissions exceeded 20% opacity on a 6-minute average.

3. All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

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V. **Testing Requirements**

1. Compliance with the emission limitations in Section A.1 shall be determined in accordance with the following methods:
 - a. Emission Limitation -
 - 2.82 lbs/hr of particulates
 - Applicable Compliance Method-
 - Compliance shall be demonstrated based upon the stack testing requirements in section A.V.2 and the methods and procedures specified in OAC rule 3745-17-03(B)(10).
 - b. Emission Limitation-
 - Visible particulate emissions of fugitive dust from this emissions unit shall not exceed 20% opacity, as a 3-minute average.
 - Applicable Compliance Method-
 - Compliance shall be determined through visible fugitive emissions evaluation performed using the methods and procedures specified in Method 9 of 40 CFR Part 60, Appendix A.
 - c. Emissions Limitation:
 - Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
 - Applicable Compliance Method:
 - Compliance shall be determined through visible stack emissions evaluation performed using the methods and procedures specified in Method 9 of 40 CFR Part 60, Appendix A.
2. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
 - a. The emission testing shall be conducted within 6 months after issuance of the permit.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate and opacity limitation for particulates. Additionally, the pressure drop range across the baghouse shall be recorded and the current 2.0 to 9.0 inches of water operational requirement shall be adjusted to a more representative range by written notification to CCHD, APCD within 60 days.
 - c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates: for particulates, Methods 1 through 5 of 40 CFR Part 60, Appendix A and for the visible particulate emission limitation, Method 9 of 40 CFR Part 60, Appendix A.
 - d. The tests shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Canton City Health Department (CCHD), Air Pollution Control Division (APCD).
 - e. A particulate emissions test also shall be conducted at the inlet of the control device to determine the uncontrolled mass rate of emission for the emission unit(s), for purposes of applying Figure II of OAC rule 3745-17-11. For this testing, Methods 1 through 5 of 40 CFR Part 60, Appendix A shall be employed. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the CCHD, APCD, 420 Market Avenue North, Canton, Ohio 44702-1544. 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 tests, 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 CCHD, APCD's refusal to accept the results of the emission test(s).

Personnel from the CCHD, APCD office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 1576000074 Emissions Unit ID: P023 Issuance type: Title V Draft Permit

B. State Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

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II. Operational Restrictions

- 1. None

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III. Monitoring and/or Record Keeping Requirements

- 1. None

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IV. Reporting Requirements

- 1. None

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V. Testing Requirements

- 1. None

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VI. Miscellaneous Requirements

- 1. None

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Facility ID: 1576000074 Issuance type: Title V Draft Permit

Part III - Terms and Conditions for Emissions Units

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Facility ID: 1576000074 Emissions Unit ID: P024 Issuance type: Title V Draft Permit

A. State and Federally Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
rotary slag dryer, 80 tph, Hardinge model XH-14 direct heat parallel concurrent flow,	OAC rule 3745-17-07(B)(1)	See A.2.a below.
Hauck NG/Oil burner (25 MBTU/hr capacity), vented to cyclones #1 & #2 (CD15), which exhaust into a 28 kva electrostatic precipitator (ESP) (CD16)	OAC rule 3745-17-08(B)	See A.2.b below.
	OAC rule 3745-17-07(A)(1)	See A.2.c below.
	OAC rule 3745-17-11(B)	15.3 lbs/hr particulate emissions
		See A.2.d below.
	OAC rule 3745-18-06(E)(1)	See A.2.e below.

2. Additional Terms and Conditions

- a. Visible particulate emissions of fugitive dust from this emissions unit shall not exceed 20% opacity as a 3-minute average.
- b. The permittee shall employ reasonably available control measures in order to minimize or eliminate fugitive particulate emissions by an appropriate manner of material handling, including material transfer enclosures and minimum drop height.
- c. Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
- d. The uncontrolled mass rate of emissions (UMRE) for this emissions unit was determined by using the AP-42 emissions factor of 2.0 lbs of particulates per ton of sand and gravel from Table 11.19.1-1, SCC 3-05-027-20. (No emission factor could be found for granulated blast furnace slag glass, SIC 3295 minerals, ground or treated.) Multiplying this factor by the maximum process rate of 80 tons/hr results in an UMRE of 160 lbs of particulates per hour. The allowable particulates limit was determined from Figure II of OAC rule 3745-17-11.
- e. The SO2 emissions generated by this emissions unit are due solely to the combustion of natural gas. Natural gas is not part of the process weight rate (PWR) and the PWR does not generate SO2 emissions; therefore, there is no applicable sulfur dioxide emission limit from OAC rule 3745-18-06(E)(1).

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II. Operational Restrictions

1. The permittee shall burn only natural gas (NG) as fuel in this emissions unit.
2. The permittee shall operate the ESP during any operation of this emissions unit, except the ESP is not required to be operated during periods of start-up until the exhaust gases have achieved a temperature of 250 degrees Fahrenheit at the inlet of the ESP or during periods of shutdown when the temperature of the exhaust gases has dropped below 250 degrees Fahrenheit at the inlet of the ESP.
3. The average total combined power input (in kilowatts) to all fields of the ESP, during any of the eight 3-hour blocks of time during each day and when the emissions unit is in operation, shall be no less than 90 percent of the total combined power input, as a 3-hour average, during the most recent emissions test that demonstrated the emissions unit was in compliance with the particulate emission limitation.

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain a record of occurrences during which visible fugitive emissions, on a 3-minute average, exceeded 20% opacity.
2. The permittee shall maintain a record of occurrences during which visible stack emissions, on a 6-minute average, exceeded 20% opacity.
3. The permittee shall monitor and record the following on an hourly basis during any operation of the ESP:
 - a. the secondary voltage, in kilovolts (kV), and the secondary current in amps, for each transformer rectifier

(TR) set in the ESP;

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

The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee, and shall be capable of accurately measuring the temperature of the dryer exhaust gases in degrees Fahrenheit.
 6. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

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IV. Reporting Requirements

1. The permittee shall submit deviation reports in accordance with Part I - General Terms and Conditions, Section A.I.c.
2. The permittee shall submit quarterly written deviation (excursion) reports which include the following:
 - a. Identify all periods of time visible fugitive emissions exceeded 20% opacity on a 3-minute average.
 - b. Identify all periods of time visible stack emissions exceeded 20% opacity on a 6-minute average.
3. All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.
4. The permittee shall submit deviation (excursion) reports that identify all periods of time during start-up and shutdown of the emissions unit when the ESP was not in operation and the temperature of the dryer exhaust gases exceeded the temperature levels specified in OAC rule 3745-17-07(A)(3)(a)(i) and (b)(i).
5. The permittee shall submit deviation (excursion) reports that identify all 3-hour blocks of time during which the average total combined power input to all fields of the ESP did not comply with the operational restriction specified in section A.II.3 of this permit.
6. The permittee shall submit quarterly reports that identify the sections of the ESP that were out of service along with the time period(s) involved.
7. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted in writing within 30 days after the deviation.

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V. Testing Requirements

1. Compliance with the emission limitations in Section A.1 shall be determined in accordance with the following methods:
 - a. Emission Limitation-

Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

Applicable Compliance Method-

Compliance shall be determined through visible emission evaluations performed using the methods and procedures specified in Reference Method 9 of 40 CFR Part 60, Appendix A, and 40 CFR 63.1349(b)(2).

- b. Emission Limitation-
- Visible particulate emissions of fugitive dust from this emissions unit shall not exceed 20% opacity, as a 3-minute average.
- Applicable Compliance Method-
- Compliance shall be determined through visible emission evaluations performed using the methods and procedures specified in Reference Method 9 of 40 CFR Part 60, Appendix A, and 40 CFR 63.1349(b)(2).
- c. Emission Limitation -
15.3 lbs/hr particulate emissions
- Applicable Compliance Method:
OAC rule 3745-17-03(B)(10); USEPA Methods 1 through 5.
2. Emission Testing Requirements -
- The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
- a. The emission testing shall be conducted within 6 months after issuance of this permit and approximately 2.5 years after permit issuance.
- b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate and opacity limitation for particulates. Additionally, the secondary voltage and secondary current values for the ESP during the test for this emissions unit shall fall within the acceptable operating ranges established in the manufacturer's specifications.
- c. The following test methods shall be employed to demonstrate compliance with the allowable particulate mass emission rate: Methods 1 through 5 of 40 CFR Part 60, Appendix A; and with the allowable opacity limit: Method 9 of 40 CFR Part 60, Appendix A.
- d. The tests shall be conducted while the emissions unit is operating at or near its maximum capacity of 80 TPH, unless otherwise specified or approved by the Canton City Health Department (CCHD), Air Pollution Control Division (APCD).
- e. A particulate emissions test shall also be conducted at the inlet of the ESP to determine the uncontrolled mass rate of emissions of the emissions unit, for purposes of applying Figure II of OAC rule 3745-17-11. For this testing, Methods 1 through 5 of 40 CFR, Part 60, Appendix A shall be used.
- f. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the CCHD, APCD, 420 Market Avenue North, Canton, Ohio 44702-1544. 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 tests, 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 CCHD, APCD's refusal to accept the results of the emission test(s).
- g. Personnel from the CCHD, APCD office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.
- h. 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 CCHD, APCD within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the CCHD, APCD.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 1576000074 Emissions Unit ID: P024 Issuance type: Title V Draft Permit

B. State Enforceable Section

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

1. None.

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

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

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

1. None

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II. **Operational Restrictions**

1. None

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

1. None

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IV. **Reporting Requirements**

1. None

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V. **Testing Requirements**

1. None

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 1576000074 Issuance type: Title V Draft Permit

Part III - Terms and Conditions for Emissions Units

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Facility ID: 1576000074 Emissions Unit ID: P901 Issuance type: Title V Draft Permit

A. **State and Federally Enforceable Section**

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

1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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slag crushing (80 tph max) in Hammermill	OAC rule 3745-17-07(B)(1)	See A.I.2.a below.
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- | | | |
|--|------------------------|--------------------------------------|
| crusher (D2), transfer to Jeffrey 36" x 72' | | |
| belt conveyor (D4) and transfer to dryer feed | OAC rule 3745-17-08(B) | See A.I.2.b below. |
| 30" x 536' outside belt conveyor (D5),
partially covered approx. 90% of length, | OAC rule 3745-17-07(A) | See A.I.2.c below. |
| vented to baghouse #8 (CD12) wall vent
(west) | OAC rule 3745-17-11(B) | 11.8 lbs/hr of particulate emissions |
2. **Additional Terms and Conditions**

- a. Visible particulate emissions of fugitive dust from this emissions unit shall not exceed 20% opacity as a 3-minute average.
- b. The permittee shall employ reasonably available control measures in order to minimize or eliminate visible particulate emissions of fugitive dust by an appropriate manner of material handling, including the full enclosure of transfer lines.
- c. Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
- d. The uncontrolled mass rate of emissions (UMRE) for this emissions unit was determined by using the FIRE version 5.0 emission factor of 0.26 lb of PM10 particulates per ton of raw material crushing from SCC 3-05-007-09, SIC 3241. (No emission factor could be found for granulated blast furnace slag glass, SIC 3295 minerals, ground or treated.) Multiplying this factor by the maximum process rate of 150 tons per hour, and correcting to PM from PM10 by dividing by 0.85, results in an UMRE of 24.8 lbs of particulates per hour. The allowable particulate limitation was determined from Figure II of OAC rule 3745-17-11.

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II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 3.0 to 6.0 inches of water while the emissions unit is in operation.

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.
2. The permittee shall perform daily checks when this emissions unit is in operation and when weather conditions allow, for any visible particulate emissions of fugitive dust from any non-stack (i.e., windows, doors, roof monitors) egress points in the building housing this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the location and color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

Persons responsible for making visible emission observations should acquire basic training in the general principles and practices of "reading" opacity. At a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, observer position relative to lighting, wind, and the presence of uncombined water.

3. The permittee shall maintain a maintenance log book that includes the following information:
 - a. the dates when the baghouse was checked for proper operation;
 - b. the dates when maintenance was performed and what the maintenance involved;
 - c. the dates of repairs made and what these repairs entailed;
 - d. a record of daily checks of pressure drops across the baghouse compartments when unit is in operation; and
 - e. a record of all deviations (excursions).

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IV. Reporting Requirements

1. The permittee shall submit quarterly 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 semiannual written reports which (a) identify all days during which any visible particulate emissions of fugitive dust were observed from this emissions unit and (b) describe any corrective

actions taken to minimize or eliminate the visible particulate emissions of fugitive dust. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

3. The permittee shall submit deviation reports in accordance with the requirements specified in Part I - General Term and Condition A.1.c.
4. All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

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V. Testing Requirements

1. Compliance with the emission limitations in section A.1.1 and A.1.2 shall be determined in accordance with the following methods:
 - a. Emission Limitation:

11.8 lbs/hr of particulate emissions

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon the emission testing procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5 and OAC rule 3745-17-03(B)(10).
 - b. Emission Limitation:

Visible particulate emissions of fugitive dust from this emissions unit shall not exceed 20% opacity as a 3-minute average.

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible emission evaluations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).
 - c. Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible emission evaluations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

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VI. Miscellaneous Requirements

1. None

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Facility ID: 1576000074 Emissions Unit ID: P901 Issuance type: Title V Draft Permit

B. State Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

Applicable Emissions Limitations/Control

Operations, Property, and/or Equipment Applicable Rules/Requirements 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: 1576000074 Emissions Unit ID: P902 Issuance type: Title V Draft Permit

A. State and Federally Enforceable Section

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

1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
rotary slag dryer, 80 tph, Hardinge model XH-14, direct heat parallel concurrent flow,	OAC rule 3745-17-07(B)(1)	See A.I.2.a below.
Hauck NG/Oil burner (25 mmBtu/hr capacity), vented to cyclones #1 and #2	OAC rule 3745-17-08(B)	See A.I.2.b below.
(CD15), which exhaust into a 28 kva electrostatic precipitator (ESP) (CD16)	OAC rule 3745-17-07(A)	See A.I.2.c below.
	OAC rule 3745-17-11(B)	15.3 lbs/hr of particulate emissions
		See A.I.2.d below.

OAC rule 3745-18-06(E)(1) 376.8 lbs/hr of sulfur dioxide emissions
 40 CFR Part 52.1881(b)(27)(viii) The emission limitation specified in this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-18-06(E).

2. **Additional Terms and Conditions**

- a. Visible particulate emissions of fugitive dust from this emissions unit shall not exceed 20% opacity as a 3-minute average.
- b. The permittee shall employ reasonably available control measures in order to minimize or eliminate particulate emissions of fugitive dust by an appropriate manner of material handling, including material transfer enclosures and minimizing material drop heights.
- c. Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
- d. The uncontrolled mass rate of emissions (UMRE) for this emissions unit was determined by using the AP-42 emission factor of 2.0 lbs of particulates per ton of sand and gravel from Table 11.19.1-1, SCC 3-05-027-20. (No emission factor could be found for granulated blast furnace slag glass, SIC 3295 minerals, ground or treated.) Multiplying this factor by the maximum process rate of 80 tons per hour results in an UMRE of 160 lbs of particulates per hour. The allowable particulate limitation was determined from Figure II of OAC rule 3745-17-11.

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II. **Operational Restrictions**

1. The permittee shall burn only natural gas as fuel in this emissions unit.
2. The permittee shall operate the ESP during any operation of this emissions unit, except the ESP is not required to be operated during periods of start-up until the exhaust gases have achieved a temperature of 250 degrees Fahrenheit at the inlet of the ESP or during periods of shutdown when the temperature of the exhaust gases has dropped below 250 degrees Fahrenheit at the inlet of the ESP.
3. The average total combined power input (in kilowatts) to all fields of the ESP, during any of the eight 3-hour blocks of time during each day and when the emissions unit is in operation, shall be no less than 90 percent of the total combined power input, as a 3-hour average, during the most recent emission tests that demonstrated the emissions unit was in compliance with the particulate emission limitation.

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

1. The permittee shall perform daily checks when this emissions unit is in operation and when weather conditions allow, for any visible particulate emissions of fugitive dust from this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the location and color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

Persons responsible for making visible emission observations should acquire basic training in the general principles and practices of "reading" opacity. At a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, observer position relative to lighting, wind, and the presence of uncombined water.
2. The permittee shall monitor and record the following on an hourly basis during any operation of the ESP:
 - a. the secondary voltage, in kilovolts (kV), and the secondary current, in amps, for each transformer rectifier (TR) set in the ESP;
 - b. the power input, in kilowatts, of each TR set for each hour (calculated by multiplying the secondary voltage, in kilovolts, by the secondary current, in amps, for each TR set); and
 - c. the total power input to the ESP for each hour (add together the power inputs for the TR sets operating during the hour).
3. The permittee shall record the following information for each day:
 - a. all 3-hour blocks of time during which the average total combined power input to the ESP, when the emissions unit was in operation, was less than 90 percent of the total combined power input, as a 3-hour average, during the most recent emission tests that demonstrated the emissions unit was in compliance with the particulate emission limitation; and
 - b. the duration of the downtime for the monitoring equipment specified in section A.III.4 above, the ESP sections that are out of service, and the duration of the downtime for each section when the associated emissions unit was in operation.

4. The permittee shall operate and maintain a temperature monitor and recorder that measures and records the temperature of the dryer exhaust gases entering the ESP as follows:
 - a. during all periods of start-up until the ESP is operational or until the inlet temperature of the ESP achieves the temperature level specified in OAC rule 3745-17-07(A)(3)(a)(i); and
 - b. during all periods of shutdown until the inlet temperature to the ESP drops below the temperature level specified in OAC rule 3745-17-07(A)(3)(b)(i).

The temperature monitor and recorder shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee, and shall be capable of accurately measuring the temperature of the dryer exhaust gases in degrees Fahrenheit.
5. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

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IV. Reporting Requirements

1. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions of fugitive dust were observed from this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions of fugitive dust. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
2. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during start-up and shutdown of the emissions unit when the ESP was not in operation and the temperature of the dryer exhaust gases exceeded the temperature levels specified in OAC rule 3745-17-07(A)(3)(a)(i) and (b)(i).
3. The permittee shall submit quarterly deviation (excursion) reports that identify all 3-hour blocks of time during which the average total combined power input to all fields of the ESP did not comply with the operational restriction specified in section A.II.3 of this permit.
4. The permittee shall submit quarterly reports that identify the sections of the ESP that were out of service along with the time period(s) involved.
5. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted in writing within 30 days after the deviation.
6. The permittee shall submit the quarterly deviation reports in accordance with the requirements specified in Part I - General Term and Condition A.1.c.
7. All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

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V. Testing Requirements

1. Compliance with the emission limitations in sections A.I.1 and A.I.2 of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:

Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible emission evaluations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).
 - b. Emission Limitation:

Visible particulate emissions of fugitive dust from this emissions unit shall not exceed 20% opacity as a 3-minute average.

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible emission evaluations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).
 - c. Emission Limitation:

15.3 lbs/hr of particulate emissions

Applicable Compliance Method:

Compliance shall be demonstrated based upon the emission testing procedures specified in section A.V.2.

d. Emission Limitation:

376.8 lbs/hr of sulfur dioxide emissions

Applicable Compliance Method:

The SO2 emissions generated by this emissions unit are due solely to the combustion of natural gas. The process materials employed in this emissions unit do not generate SO2 emissions during the heating process.

Compliance with this limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel.

2. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

a. The emission testing shall be conducted within 6 months after issuance of this permit, approximately 2.5 years after permit issuance, and within 6 months prior to permit expiration.

b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate and visible emission limitations for particulates. Additionally, the secondary voltage and secondary current values for the ESP during the test for this emissions unit shall fall within the acceptable operating ranges established in the manufacturer's specifications.

c. The following test methods shall be employed to demonstrate compliance with the allowable particulate mass emission rate: Methods 1 through 5 of 40 CFR Part 60, Appendix A; and with the allowable visible particulate emission limitations: Method 9 of 40 CFR Part 60, Appendix A.

d. The tests shall be conducted while the emissions unit is operating at or near its maximum capacity of 80 TPH, unless otherwise specified or approved by the Canton City Health Department (CCHD), Air Pollution control Division (APCD).

e. Particulate emission tests shall also be conducted at the inlet of the ESP to determine the uncontrolled mass rate of emissions of the emissions unit for purposes of applying Figure II of OAC rule 3745-17-11. For this testing, Methods 1 through 5 of 40 CFR, Part 60, Appendix A shall be used.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the CCHD, APCD, 420 Market Avenue North, Canton, Ohio 444702-1544. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit's operating parameters, the time(s) and date(s) of the tests, 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 CCHD, APCD's refusal to accept the results of the emission test(s).

Personnel from the CCHD, APCD office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emission test(s) shall be signed by the person or persons responsible for the tests and submitted to the CCHD, APCD within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the CCHD, APCD.

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 1576000074 Emissions Unit ID: P902 Issuance type: Title V Draft Permit

B. State Enforceable Section

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

- 1. None.

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

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

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

1. None

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II. **Operational Restrictions**

1. None

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

1. None

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IV. **Reporting Requirements**

1. None

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V. **Testing Requirements**

1. None

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VI. **Miscellaneous Requirements**

1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 1576000074 Emissions Unit ID: P903 Issuance type: Title V Draft Permit

A. State and Federally Enforceable Section

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

1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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slag material transfer (80 tph max) from	OAC rule 3745-17-07(B)(1)	See A.I.2.a below.
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dryer feed belt		
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conveyor D5 to dryer feed (10' high x 6' dia.)	OAC rule 3745-17-08(B)	See A.I.2.b below.
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bin D21 (vents 1500 cfm to baghouse # 9,		
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CD13) with rotating disc table feeder D22 at	OAC rule 3745-17-07(A)	See A.I.2.c below.
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- base (vents 4000 cfm to baghouse # 9, CD13) that discharges to the NG fired dryer (EU25) and/or bypass conveyor (EU24) that vents 1500 cfm to baghouse # 9, CD13
- OAC rule 3745-17-11(B)
- 2.8 lbs/hr of particulate emissions
- See A.I.2.d below.
- 2. Additional Terms and Conditions**
- Visible particulate emissions of fugitive dust from this emissions unit shall not exceed 20% opacity as a 3-minute average.
 - The permittee shall employ reasonably available control measures in order to minimize or eliminate visible particulate emissions of fugitive dust by an appropriate manner of material handling, including the full enclosure of transfer lines.
 - Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
 - The uncontrolled mass rate of emissions (UMRE) for this emissions unit was determined by using the FIRE version 5.0 emission factor of 015 lb of PM10 particulates per ton of cement raw material transfer from SCC 3-05-027-20, SIC 3241. (No emission factor could be found for granulated blast furnace slag glass, SIC 3295 minerals, ground or treated.) Multiplying this factor by the maximum process rate of 80 tons per hour, and correcting to PM from PM10 by dividing by 0.85, results in an UMRE of 14.12 lbs of particulates per hour. The allowable particulate limitation was determined from Figure II of OAC rule 3745-17-11.

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II. Operational Restrictions

- The pressure drop across the baghouse shall be maintained within the range of 3.0 to 6.0 inches of water while the emissions unit is in operation, until a pressure drop range that is more representative of actual operating conditions can be established during the next emission testing required in section A.V.2.

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III. Monitoring and/or Record Keeping 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 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.
- The permittee shall perform daily checks when this emissions unit is in operation and when weather conditions allow, for any visible particulate emissions of fugitive dust from this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - the location and color of the emissions;
 - whether the emissions are representative of normal operations;
 - if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - the total duration of any visible emission incident; and
 - any corrective actions taken to minimize or eliminate the visible emissions.

Persons responsible for making visible emission observations should acquire basic training in the general principles and practices of "reading" opacity. At a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, observer position relative to lighting, wind, and the presence of uncombined water.

- The permittee shall maintain a maintenance log book that includes the following information:
 - the dates when the baghouse was checked for proper operation;
 - the dates when maintenance was performed and what the maintenance involved;
 - the dates of repairs made and what these repairs entailed;
 - a record of daily checks of pressure drops across the baghouse compartments when unit is in operation; and
 - a record of all deviations (excursions).

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IV. Reporting Requirements

- The permittee shall submit quarterly 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.
- The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions of fugitive dust were observed from this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions of fugitive dust. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31

and July 31 of each year and shall cover the previous 6-month period.

3. The permittee shall submit deviation reports in accordance with the requirements specified in Part I - General Term and Condition A.1.c.
4. All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

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V. **Testing Requirements**

1. Compliance with the emission limitations in section A.1.1 and A.1.2 shall be determined in accordance with the following methods:
 - a. Emission Limitation:

2.8 lbs/hr of particulate emissions

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon the emission testing procedures specified in section A.V.2 and the methods and procedures specified in OAC rule 3745-17-03(B)(10).
 - b. Emission Limitation:

Visible particulate emissions of fugitive dust from this emissions unit shall not exceed 20% opacity as a 3-minute average.

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible emission evaluations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).
 - c. Emission Limitation:

20% opacity as a 6-minute average for stack emissions

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible emission evaluations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).
2. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
 - a. The emission testing shall be conducted if required.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate and visible emission limitations for particulates. Additionally, the pressure drop range across the baghouse shall be recorded and the current 3.0 to 6.0 inches of water operational requirement shall be adjusted, if necessary, to a more representative range by written notification to Canton City Health Department (CCHD), Air Pollution Control Division (APCD) within 60 days.
 - c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates: for particulates, Methods 1 through 5 of 40 CFR Part 60, Appendix A and for the visible particulate emission limitations, Method 9 of 40 CFR Part 60, Appendix A.
 - d. The tests shall be conducted while the emissions unit is operating at or near its maximum capacity of 80 TPH, unless otherwise specified or approved by the CCHD, APCD.
 - e. Particulate emission tests also shall be conducted at the inlet of the control device to determine the uncontrolled mass rate of emission for the emissions unit(s), for purposes of applying Figure II of OAC rule 3745-17-11. For this testing, Methods 1 through 5 of 40 CFR Part 60, Appendix A shall be employed. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the CCHD, APCD. 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 CCHD, APCD's refusal to accept the results of the emission test(s).

Personnel from the CCHD, APCD 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 emission test(s) shall be signed by the person or persons responsible for the tests and submitted to the CCHD, APCD within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the CCHD, APCD.

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 1576000074 Emissions Unit ID: P903 Issuance type: Title V Draft Permit

B. State Enforceable Section

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

- 1. None.

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

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

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

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II. **Operational Restrictions**

- 1. None

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

- 1. None

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IV. **Reporting Requirements**

- 1. None

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V. **Testing Requirements**

- 1. None

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VI. **Miscellaneous Requirements**

- 1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 1576000074 Emissions Unit ID: P904 Issuance type: Title V Draft Permit

A. State and Federally Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
slag material transfer (80 tph max) from Jeffrey 24" x 133' bypass belt conveyor D27 (vents 1000 cfm to baghouse #10, CD14) to Jeffrey 24" x 180' discharge belt conveyor (1/3 inside dryer discharge building) D25 (vents 3000 cfm to baghouse #10, CD14) to ladder chute discharging inside crane storage building	OAC rule 3745-17-07(B)(1) OAC rule 3745-17-08(B) OAC rule 3745-17-07(A) OAC rule 3745-17-11(B)	See A.I.2.a below. See A.I.2.b below. See A.I.2.c below. 2.8 lbs/hr of particulate emissions See A.I.2.d below.

2. Additional Terms and Conditions

- a. Visible particulate emissions of fugitive dust from this emissions unit shall not exceed 20% opacity as a 3-minute average.
- b. The permittee shall employ reasonably available control measures in order to minimize or eliminate visible particulate emissions of fugitive dust by an appropriate manner of material handling, including the full enclosure of transfer lines.
- c. Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
- d. The uncontrolled mass rate of emissions (UMRE) for this emissions unit was determined by using the FIRE version 5.0 emission factor of 015 lb of PM10 particulates per ton of cement raw material transfer from SCC 3-05-027-20, SIC 3241. (No emission factor could be found for granulated blast furnace slag glass, SIC 3295 minerals, ground or treated.) Multiplying this factor by the maximum process rate of 80 tons per hour, and correcting to PM from PM10 by dividing by 0.85, results in an UMRE of 14.12 lbs of particulates per hour. The allowable particulate limitation was determined from Figure II of OAC rule 3745-17-11.

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II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 3.0 to 6.0 inches of water while the emissions unit is in operation, until a pressure drop range that is more representative of actual operating conditions can be established during the next emission testing required in section A.V.2.

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.
2. The permittee shall perform daily checks when this emissions unit is in operation and when weather conditions allow, for any visible particulate emissions of fugitive dust from this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the location and color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and

- e. any corrective actions taken to minimize or eliminate the visible emissions.

Persons responsible for making visible emission observations should acquire basic training in the general principles and practices of "reading" opacity. At a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, observer position relative to lighting, wind, and the presence of uncombined water.

3. The permittee shall maintain a maintenance log book that includes the following information:
- the dates when the baghouse was checked for proper operation;
 - the dates when maintenance was performed and what the maintenance involved;
 - the dates of repairs made and what these repairs entailed;
 - a record of daily checks of pressure drops across the baghouse compartments when unit is in operation; and
 - a record of all deviations (excursions).

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IV. Reporting Requirements

- The permittee shall submit quarterly 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.
- The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions of fugitive dust were observed from this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions of fugitive dust. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
- The permittee shall submit deviation reports in accordance with the requirements specified in Part I - General Term and Condition A.1.c.
- All reports shall be submitted to the Canton City Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702.

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V. Testing Requirements

- Compliance with the emission limitations in section A.1.1 and A.1.2 shall be determined in accordance with the following methods:
 - Emission Limitation:

2.8 lbs/hr of particulate emissions

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon the emission testing procedures specified in section A.V.2 and the methods and procedures specified in OAC rule 3745-17-03(B)(10).
 - Emission Limitation:

Visible particulate emissions of fugitive dust from this emissions unit shall not exceed 20% opacity as a 3-minute average.

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible emission evaluations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).
 - Emission Limitation:

20% opacity as a 6-minute average for stack emissions

Applicable Compliance Method:

Compliance shall be demonstrated based upon visible emission evaluations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).
- The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
 - The emission testing shall be conducted if required.
 - The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate and visible emission limitations for particulates. Additionally, the pressure drop range across the baghouse shall be recorded and the current 3.0 to 6.0 inches of water operational requirement shall be adjusted, if necessary, to a more representative range by written notification to Canton City Health Department (CCHD), Air Pollution Control Division (APCD) within 60 days.

c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates: for particulates, Methods 1 through 5 of 40 CFR Part 60, Appendix A and for the visible particulate emission limitations, Method 9 of 40 CFR Part 60, Appendix A.

d. The tests shall be conducted while the emissions unit is operating at or near its maximum capacity of 80 TPH, unless otherwise specified or approved by the CCHD, APCD.

e. Particulate emission tests also shall be conducted at the inlet of the control device to determine the uncontrolled mass rate of emission for the emissions unit(s), for purposes of applying Figure II of OAC rule 3745-17-11. For this testing, Methods 1 through 5 of 40 CFR Part 60, Appendix A shall be employed. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the CCHD, APCD. 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 CCHD, APCD's refusal to accept the results of the emission test(s).

Personnel from the CCHD, APCD 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 emission test(s) shall be signed by the person or persons responsible for the tests and submitted to the CCHD, APCD within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the CCHD, APCD.

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 1576000074 Emissions Unit ID: P904 Issuance type: Title V Draft Permit

B. State Enforceable Section

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

- 1. None.

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

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

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

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II. **Operational Restrictions**

- 1. None

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

- 1. None

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IV. **Reporting Requirements**

1. None

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V. **Testing Requirements**

1. None

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VI. **Miscellaneous Requirements**

1. None