

Facility ID: 0829700165 Issuance type: Title V Proposed Permit

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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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Facility ID: 0829700165 Issuance type: Title V Proposed Permit

Part II - Specific Facility Terms and Conditions

a State and Federally Enforceable Section

1. The following rule is applicable to this facility: 40 CFR 63.1340 et seq. (Subpart LLL) [compliance date is June 14, 2002]

The permittee shall comply with the applicable emission limitation in 40 CFR 63.1345, 63.1347 and 63.1348 (10 percent opacity)

The following is the list of the emissions units at this facility that are subject to 40 CFR 63.1340 et seq. (Subpart LLL):

 - a. each kiln and each in-line kiln raw mill, including alkali bypasses (including emissions unit P003) shall comply with the applicable emission limitations in 40 CFR 63 1343 and 1344;
 - b. each clinker cooler (including emissions unit P904) shall comply with the applicable emission limitations in 40 CFR 63 1345;
 - c. each raw mill;
 - d. each finish mill (including emissions unit P916) shall comply with the applicable emission limitations in 40 CFR 63 1347;
 - e. each raw material dryer;
 - f. each raw material, clinker, or finished product storage bin (including emissions units F104, P012, P013, P906, P907, P909, P912, P913, P918, P928, and P929) shall comply with the applicable emission limitations in 40 CFR 63 1348;
 - g. each conveying system transfer point (including emissions units P905, P910, P011, P014, P911, P914, P915, P917, P924, P925, P927) shall comply with the applicable emission limitations in 40 CFR 63 1348;
 - h. each bagging system (including emissions units P922, and P923) shall comply with the applicable emission limitations in 40 CFR 63 1348; and
 - i. each bulk loading or unloading system (including emissions units F105, P919) shall comply with the applicable emission limitations in 40 CFR 63 1348.
2. The first affected source in the sequence of materials handling operations subject to Subpart LLL is the raw material storage, which is just prior to the raw mill. Any equipment of the on-site nonmetallic mineral processing plant which precedes the raw material storage is not subject to Subpart LLL. In addition, the primary and secondary crushers of the on-site nonmetallic mineral processing plant, regardless of whether they precede the raw material storage, are not subject to Subpart LLL. Furthermore, the first conveyor transfer point subject to Subpart LLL is the transfer point associated with the conveyor transferring material from the raw material storage to the raw mill.
40 CFR 63.1340(c)
3. In conjunction with A.1 and A.2 above, the permittee shall comply with the following monitoring and/or record keeping requirements:
 - a. The permittee shall monitor opacity in accordance with the operation and maintenance (O & M) plan developed in accordance with the requirements below.

The written O & M plan shall be developed and submitted as required in section A.4.a below, and shall include the following information:

 - i. procedures for proper operation and maintenance of the affected source and air pollution control devices in order to meet the emission limit specified in section A.1 above;
 - ii. corrective actions to be taken when required by section A.3.c below; and
 - iii. procedures to be used to periodically monitor the affected sources listed in section A.2 above. Such

procedures must include the provisions specified in section A.3.b below.
40 CFR 63.1350(a), (j)

- b. The permittee shall perform the following:
- i. Conduct a monthly 1-minute visible emissions test of each affected source in accordance with Method 22 of Appendix A of 40 CFR Part 60. The test shall be conducted while the affected source is in operation.
 - ii. If no visible emissions are observed in six consecutive monthly tests for any affected source, the permittee may decrease the frequency of testing from monthly to semi-annually for that affected source. If visible emissions are observed during any semi-annual test, the permittee shall resume testing of that affected source on a monthly basis and maintain that schedule until no visible emissions are observed in six consecutive monthly tests.
 - iii. If no visible emissions are observed during the semi-annual test for any affected source, the permittee may decrease the frequency of testing from semi-annually to annually for that affected source. If visible emissions are observed during any annual test, the permittee shall resume testing of that affected source on a monthly basis and maintain that schedule until no visible emissions are observed in six consecutive monthly tests.
 - iv. If visible emissions are observed during any Method 22 test, the permittee shall conduct a 6-minute test of opacity in accordance with Method 9, Appendix A of 40 CFR Part 60. The Method 9 test shall begin within one hour of any observation of visible emissions.
- b. v. The requirement to conduct Method 22 visible emissions monitoring pursuant to sections A.3.a and A.3.b shall not apply to any totally enclosed conveying system transfer point, regardless of the location of the transfer point. ["Totally enclosed conveying system transfer point" shall mean a conveying system transfer point that is enclosed on all sides, top, and bottom.] The enclosures for these transfer points shall be operated and maintained as total enclosures on a continuing basis in accordance with the facility operations and maintenance plan.
- vi. If any partially enclosed or unenclosed conveying system transfer point is located in a building, the permittee shall have the option to conduct a Method 22 visible emissions monitoring according to the requirements in sections A.3.b.i through A.3.b.iv above for each such conveying system transfer point located within the building, or for the building itself (according to section A.3.b.vii). *
- vii. If visible emissions from the building are monitored, the requirements of sections A.3.b.i through A.3.b.iv above shall apply to the monitoring of the building, and the permittee shall also test for visible emissions from each side, roof and vent of the building for at least 1 minute. The test shall be conducted under normal operating conditions.
40 CFR 63.1350(a)
- c. The permittee shall monitor the finish mill for opacity by conducting daily visual emissions observations of the mill sweep and air separator baghouses of these affected sources in accordance with the procedures of Method 22, Appendix A of 40 CFR Part 60. The Method 22 test shall be conducted while the affected source is operating at the representative performance conditions. The duration of the Method 22 test shall be 6 minutes. If visible emissions are observed during any Method 22 visible emissions test, the permittee shall:
- i. initiate, within one-hour, the corrective actions specified in the O & M plan; and
 - ii. within 24 hours of the end of the Method 22 test in which visible emissions were observed, conduct a follow-up Method 22 test of each stack from which visible emissions were observed during the previous Method 22 test. If visible emissions are observed during the follow-up Method 22 test from any stack from which visible emissions were observed during the previous Method 22 test, conduct a visual opacity test of each stack from which emissions were observed during the follow up Method 22 test in accordance with Method 9, Appendix A of 40 CFR Part 60. The duration of the Method 9 test shall be 30 minutes.
40 CFR 63.1350(e)
- d. The permittee may submit an application to the Director for approval of alternate monitoring requirements to demonstrate compliance with the emission standards of Subpart LLL under this permit subject to the provisions of A.3.e through A.3.i below.
- If the application to use an alternate monitoring requirement is approved, the permittee must continue to use the original monitoring requirement until approval is received to use another monitoring requirement.
40 CFR 63.1350(l)
- e. The Director will not approve averaging periods other than those specified in this section A.3, unless the permittee documents, using data or information, that the longer averaging period will ensure that emissions do not exceed levels achieved during the performance test over any increment of time equivalent to the time required to conduct three runs of the performance test.
40 CFR 63.1350(l)(1)
- f. The permittee shall submit the application for approval of alternate monitoring requirements no later than date of the notification of the performance test. The application shall contain the following information:
- i. data or information justifying the request, such as the technical or economic infeasibility, or the impracticality of using the required approach;

- ii. a description of the proposed alternative monitoring requirements, including the operating parameters to be monitored, the monitoring approach and technique, the averaging period for the limit, and how the limit is to be calculated; and
 - iii. data or information documenting that the alternative monitoring requirements would provide equivalent or better assurance of compliance with the relevant emission standard.
40 CFR 63.1350(l)(3)
- g. The Director will notify the permittee of the approval or denial of the application within 90 calendar days after receipt of the original request, or within 60 calendar days of the receipt of any supplementary information, whichever is later. The Director will not approve an alternate monitoring application unless it would provide equivalent or better assurance of compliance with the relevant emission standard. Before disapproving any alternate monitoring application, the Director will provide:
 - i. notice of the information and findings upon which the intended disapproval is based; and
 - ii. notice of opportunity for the permittee to present additional supporting information before final action is taken on the application. This notice will specify how much additional time is allowed for the permittee to provide additional supporting information.
40 CFR 63.1350(l)(4)
- h. The permittee is responsible for submitting any supporting information in a timely manner to enable the Director to consider the application prior to the performance test. Neither submittal of an application, nor the Director's failure to approve or disapprove the application, relieves the permittee of the responsibility to comply with any provision of Subpart LLL under this permit.
40 CFR 63.1350(l)(5)
- i. The Director may decide at any time, on a case-by-case basis, that additional or alternative operating limits, or alternative approaches to establishing operating limits, are necessary to demonstrate compliance with the emission standards of Subpart LLL under this permit.
40 CFR 63.1350(l)(6)
- j. The requirements in section A.3.c to conduct daily Method 22 testing shall not apply to any specific raw mill or finish mill equipped with a continuous opacity monitor (COM) or a bag leak detection system (BLDS). If the permittee chooses to install a COM in lieu of conducting the daily visual emissions testing as required pursuant to section A.3.c, then the permittee shall install a COM at the outlet of the PM control device of the raw mill or finish mill. The COM shall be installed, maintained, calibrated, and operated as required by the general provisions of 40 CFR, Part 60, Subpart A and performance specification 1, Appendix B of 40 CFR, Part 60. To remain in compliance, the opacity shall be maintained such that the 6-minute average for any 6-minute block period does not exceed 10 percent. If the average opacity for any 6-minute block period exceeds 10 percent, this shall constitute a violation of the opacity limitation. If the permittee chooses to install a BLDS in lieu of conducting the daily visual emissions testing as required pursuant to section A.3.c, the permittee shall then comply with the requirements specified in sections A.3.k through A.3.s below.
40 CFR 63.1350(m)
- k. The BLDS must be certified by the manufacturer to be capable of detecting PM emissions at concentrations of 10 milligrams per actual cubic meter (0.0044 grains per actual cubic foot) or less. "Certify" shall mean that the instrument manufacturer has tested the instrument on gas streams having a range of particle size distributions and confirmed by means of valid filterable PM tests that the minimum detectable concentration limit is at or below 10 milligrams per actual cubic meter (0.0044 grains per actual cubic foot) or less.
40 CFR 63.1350(m)(1)
- l. The sensor on the BLDS must provide output of relative PM emissions.
40 CFR 63.1350(m)(2)
- m. The BLDS must have an alarm that will activate automatically when it detects a significant increase in relative PM emissions greater than a preset level.
40 CFR 63.1350(m)(3)
- n. The presence of an alarm condition should be clearly apparent to facility operating personnel.
40 CFR 63.1350(m)(4)
- o. For a positive-pressure fabric filter, each compartment or cell must have a bag leak detector. For a negative-pressure or induced-air fabric filter, the bag leak detector must be installed downstream of the fabric filter. If multiple bag leak detectors are required (for either type of fabric filter), detectors may share the system instrumentation and alarm.
40 CFR 63.1350(m)(5)
- p. All BLDS must be installed, operated, adjusted, and maintained so that they are based on the manufacturer's written specifications and recommendations. The US EPA recommends that where appropriate, the standard operating procedures manual for each bag leak detection system include concepts from EPA's "Fabric Filter Bag Leak Detection Guidance" (EPA-454/R-98-015, September

- 1997).
40 CFR 63.1350(m)(6)
- q. The baseline output of the BLDS system must be established as follows:
- i. adjust the range and the averaging period of the device; and
 - ii. establish the alarm set points and the alarm delay time.
40 CFR 63.1350(m)(7)
- r. After initial adjustment, the range, averaging period, alarm set points, or alarm delay time may not be adjusted except as specified in the O & M plan. In no event may the range be increased by more than 100 percent or decreased by more than 50 percent over a 1 calendar year period unless a responsible official as defined in 40 CFR 63.2 certifies in writing to the Director that the fabric filter has been inspected and found to be in good operating condition.
40 CFR 63.1350(m)(8)
- s. The permittee must maintain and operate the fabric filter such that the bag leak detector alarm is not activated and alarm condition does not exist for more than 5 percent of the total operating time in a 6-month block period. Each time the alarm activates, alarm time will be counted as the actual amount of time taken by the owner or operator to initiate corrective actions. If inspection of the fabric filter demonstrates that no corrective actions are necessary, no alarm time will be counted. The permittee must continuously record the output from the BLDS during periods of normal operation. Normal operation does not include periods when the BLDS is being maintained or during startup, shutdown or malfunction.
40 CFR 63.1350(m)(9)
- t. The permittee shall maintain files of all the information (including all reports and notifications) required by Subpart LLL. The files shall be recorded in a form suitable and readily available for inspection and review as required by 40 CFR 63.10(b)(1). The files shall be retained for at least five years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent two years of data shall be retained on site. The remaining three years of data may be retained off site. The files may be maintained on microfilm, on a computer, on floppy disks, on magnetic tape, or on microfiche.
- The permittee shall maintain the following records for each affected emissions unit, as required by 40 CFR 63.10(b)(2) and (b)(3):
- i. all documentation supporting initial notifications and notifications of compliance status pursuant to 40 CFR 63.9;
 - ii. all records of applicability determination, including supporting analyses; and
 - iii. if the permittee has been granted a waiver pursuant to 40 CFR 63.8(f)(6), any information demonstrating whether a source is meeting the requirements for a waiver of record keeping or reporting requirements.
- In addition, regarding any continuous monitoring system, all records shall be maintained as required by 40 CFR 63.10(c).
40 CFR 63.1355
4. In conjunction with A.1 and A.2 above, the permittee shall comply with the following reporting requirements:
- a. The permittee shall prepare, for each Subpart LLL affected source under this permit, a written operations and maintenance plan (O & M plan). The plan shall be submitted to the Director for review and approval, and shall meet the requirements of A.3.a above.
- Failure to comply with any provision of the operations and maintenance plan shall be a violation of the standard.
40 CFR 63.1350(a), (b)
- b. The permittee shall comply with the notification requirements specified in 40 CFR 63.9 as follows:
- i. submit notification of performance tests, as required by 40 CFR 63.7 and 63.9(e).
 - ii. submit notification of opacity and visible emission observations required by section A.3 above in accordance with 40 CFR 63.6(h)(5) and 63.9(f).
 - iii. submit notification, as required by 40 CFR 63.9(g), of the date that the continuous emission monitor performance evaluation required by 40 CFR 63.8(e) is scheduled to begin.
 - iv. submit notification of compliance status, as required by 40 CFR 63.9(h).
40 CFR 63.1353
- c. The permittee shall comply with the reporting requirements specified in 40 CFR 63.10 of the general provisions of 40 CFR, Part 63, Subpart A as follows:
- i. as required by 40 CFR 63.10(d)(2), the permittee shall report the results of performance tests as part of the notification of compliance status;

- ii. as required by 40 CFR 63.10(d)(3), the permittee shall report the opacity results from tests required by A.5.c below;
 - iii. as required by 40 CFR 63.10(d)(4), if the permittee is required to submit progress reports as a condition of receiving an extension of compliance under 40 CFR 63.6(i), the permittee shall submit such reports by the dates specified in the written extension of compliance.
40 CFR 63.1354(b)(1) - (3)
- d. As required by 40 CFR 63.10(d)(5), if actions taken by the permittee during a startup, shutdown, or malfunction of an affected source (including actions taken to correct a malfunction) are consistent with the procedures specified in the source's startup, shutdown, and malfunction plan specified in 40 CFR 63.6(e) (3), the permittee shall state such information in a semiannual report. Reports shall only be required if a startup, shutdown, or malfunction occurred during the reporting period. The startup, shutdown, and malfunction report may be submitted simultaneously with the excess emissions and continuous monitoring system performance reports, if applicable.
40 CFR 63.1354(b)(4)
- e. The permittee shall report any action taken during a startup, shutdown or malfunction (including actions taken during a malfunction) that is not consistent with the procedures in the startup, shutdown, and malfunction plan if the source exceeds the relevant emissions standard. The permittee shall make an immediate report of the actions taken for that event within 2 working days, by telephone call or facsimile (FAX) transmission. The immediate report shall be followed by a letter within seven working days of the end of the event, certified by the owner or operator or other responsible official, explaining the circumstances of the event, the reasons for not following the startup, shutdown, and malfunction plan, and whether any excess emissions and/or parameter monitoring exceedances are believed to have occurred.
40 CFR 63.1354(b)(5)
- f. The permittee shall submit a summary report semiannually which contains the information specified in 40 CFR 63.10(e)(3)(vi). In addition, the summary report shall include: All failures to comply with any provision of the O & M plan developed in accordance with A.4.a above.
40 CFR 63.1354(b)(9)(v)
- 5. In conjunction with A.1 and A.2 above, the permittee shall comply with the following testing/ compliance demonstration requirements:
 - a. The permittee shall demonstrate initial compliance with the opacity standards using the test methods and procedures specified in section A.5.b and in 40 CFR 63.7. Performance test results shall be documented in complete test reports that contain the information required by items i through x below, as well as all other relevant information. The plan to be followed during testing shall be made available to the Director prior to testing, if requested:
 - i. a brief description of the process and the air pollution control system;
 - ii. sampling location description(s);
 - iii. a description of sampling and analytical procedures and any modifications to standard procedures;
 - iv. test results;
 - v. quality assurance procedures and results;
 - vi. records of operating conditions during the test, preparation of standards, and calibration procedures;
 - vii. raw data sheets for field sampling and field and laboratory analyses;
 - viii. documentation of calculations;
 - ix. all data recorded and used to establish parameters for compliance monitoring; and
 - x. any other information required by the test method.
40 CFR 63.1349(a)
 - b. The permittee shall demonstrate initial compliance with the opacity limitation of the affected emissions unit by conducting a test in accordance with Method 9, Appendix A of 40 CFR, Part 60. The performance test shall be conducted under the conditions that exist when the affected emissions unit is operating at the representative performance conditions in accordance with 40 CFR 63.7(e). The maximum 6-minute average opacity exhibited during the test period shall be used to determine whether the affected emissions unit is in initial compliance with the opacity limitation. The duration of the Method 9 performance test shall be 3 hours (30 6-minute averages), except that the duration of the Method 9 performance test may be reduced to 1 hour if the following conditions apply:
 - i. there are no individual readings greater than 10 percent opacity; and
 - ii. there are no more than three readings of 10 percent for the first 1-hour period.
40 CFR 63.1349(b)(2)
 - c. The permittee shall conduct, or have conducted, emission testing for the Subpart LLL affected sources in accordance with the following requirements:
 - i. The emission testing shall be conducted by December 14, 2002 [in accordance with 40 CFR 63.7(a)(2)

(ix)].

- ii. The emission testing shall be conducted to demonstrate compliance with the allowable opacity limit(s).
- iii. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rates: Method 9, 40 CFR, Part 60, Appendix A. Alternative U.S. EPA-approved test methods may be used with prior approval from the US EPA and Ohio EPA.
- iv. The test(s) shall be conducted while this emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.
- v. The test(s) shall be conducted in accordance with A.5.a and A.5.b above.

- c. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

- 6. In conjunction with A.1 and A.2 above, the permittee shall comply with the following miscellaneous requirements:

The permittee shall comply with all applicable requirements of 40 CFR 63 Subpart LLL (National Emission Standards for Hazardous Air Pollutants for Portland Cement Manufacturing) as well as with all the applicable requirements of subpart A of part 63 (General Provisions), as identified in Table 1 in the appendix of Subpart LLL.

- 7. In accordance with 40 CFR Part 63.1356, any affected source subject to the provisions of 40 CFR 63, Subpart LLL is exempted from any otherwise applicable new source performance standard in 40 CFR Part 60, Subpart F.
- 8. The emissions units at the "Town Plant" are located in the City of Fairborn, which is an "Appendix A" area, as specified in OAC rule 3745-17-08. Therefore, the emissions units are subject to the RACM requirements established in OAC rule 3745-17-08(B) and the visible emission limitations specified in OAC rule 3745-17-07 (B).

The emissions units at the "Quarry Plant" are located in (Bath Township) which is not "an Appendix A" area, as specified in OAC rule 3745-17-08. Therefore, (with the exception of the roadways and parking areas) the emissions units are not subject to the RACM requirements established in OAC rule 3745-17-08(B) and the visible emission limitations specified in OAC rule 3745-17-07(B).

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b State Only Enforceable Section

- 1. The following insignificant emissions units located at this facility are exempt from permit requirements because they are not subject to any applicable requirements (as defined in OAC rule 3745-77-01(H)) or because they meet the "de minimis" criteria established in OAC rule 3745-15-05:

Z006 - 2,000-gallon waste water storage tank
 Z007 - 2,000-gallon septic waste water storage tank
 Z009 - 4,000-propylene glycol storage tank
 Z010 - 10,000-gallon diesel storage tank
 Z013 - solvent cleaner

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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[Go to Part III for Emissions Unit F104](#)

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0829700165 Emissions Unit ID: F102 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Unpaved Plant Roadways and Parking Areas at the Town Plant	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)(2)	reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.I.2.d, f and g)
Paved Plant Roadways and Parking Areas at the Town Plant	OAC rule 3745-17-07(B)(4)	See A.2.a below. no visible particulate emissions except for 6 minutes during any 60-minute period
	OAC rule 3745-17-08(B)(8), (B)(9)	reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.I.2.e, f and h)

2. Additional Terms and Conditions

- a. This emissions unit is located in an "Appendix A" area as indicated in OAC rule 3745-17-08. Therefore, the emissions unit is subject to the RACM requirements established in OAC rule 3745-17-08(B) and the visible emission limitations specified in OAC rule 3745-17-07(B).
- b. The unpaved roadways and parking areas that are covered by this permit and subject to the requirements of OAC rules 3745-17-07 and 3745-17-08 are listed below:

unpaved roadways:

all unpaved roadways

unpaved parking areas:

all unpaved parking areas

- c. The paved roadways and parking areas that are covered by this permit and subject to the above-mentioned requirements are listed below:
- paved roadways:
- all paved roadways
- paved parking areas:
- all paved parking areas
- d. The permittee shall employ reasonably available control measures on all unpaved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the unpaved roadways and parking areas with water at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other equally effective control measures to ensure compliance.
- e. The permittee shall employ reasonably available control measures on all paved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the paved roadways and parking areas by sweeping and/or watering at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other equally effective 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 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. Open-bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times if the control measure is necessary for the materials being transported.
- j. Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-17-08.

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II. Operational Restrictions

1. None

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III. Monitoring and/or Record Keeping Requirements

1. Except as otherwise provided in this section, the permittee shall perform inspections of each of the roadway segments and each parking area in accordance with the following frequencies:
- paved roadways and parking areas minimum inspection frequency

All daily

unpaved roadways and parking areas minimum inspection frequency

All daily

2. The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above-identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.
3. The permittee 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 3.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 reporting requirements of the General Terms and Conditions of this permit.

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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 method:
 - a. Emission Limitation: no visible particulate emissions from paved roadways except for 6 minutes during any 60-minute period

Applicable Compliance Method: If required, the permittee shall demonstrate compliance with the visible PE limitation above in accordance with OAC rule 3745-17-03(B)(4).
 - b. Emission Limitation: no visible particulate emissions from unpaved roadways except for 13 minutes during any 60-minute period

Applicable Compliance Method: If required, the permittee shall demonstrate compliance with the visible PE limitation above in accordance with OAC rule 3745-17-03(B)(4).

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VI. Miscellaneous Requirements

1. None

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Facility ID: 0829700165 Emissions Unit ID: F102 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

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

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II. Operational Restrictions

- 1. None

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III. Monitoring and/or Record Keeping Requirements

- 1. None

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IV. Reporting Requirements

- 1. None

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V. Testing Requirements

- 1. None

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VI. Miscellaneous Requirements

- 1. None

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Facility ID: 0829700165 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

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Facility ID: 0829700165 Emissions Unit ID: F104 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
North and South Cement Silos, equipped with fabric filters	OAC rule 3745-17-07(B)	Visible particulate emissions (PE) shall not exceed 20% opacity, as a 3-minute average.
	OAC rule 3745-17-08(B)(3)	See A.I.2.a and A.I.2.b.
	40 CFR Part 63 Subpart LLL	See Part II - Specific Facility Terms and Conditions.
	OAC rule 3745-17-07(A)	Visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-11(B)	53.7 lbs PE/hr (based on Table I of OAC rule 3745-17-11) [see A.I.2.c]

2. **Additional Terms and Conditions**

- a. This emissions unit is located in an "Appendix A" area as indicated in OAC rule 3745-17-08. Therefore, the emissions unit is subject to the RACM requirements established in OAC rule 3745-17-08(B) and the visible emission limitations specified in OAC rule 3745-17-07(B).
- b. The permittee shall employ reasonably available control measures (RACM) at all times for the control of fugitive dust emissions associated with this emissions unit. The following control techniques shall be implemented to reduce fugitive dust emissions:
- the use of an enclosure, hooding or other equally effective measures to minimize or eliminate visible PE of fugitive dust at the point(s) of capture to the extent possible with good engineering design; and
 - all PE captured within the silo enclosure shall be vented to the silo fabric filters.
- c. The 53.7 lbs/hr PE limitation is greater than the emissions unit's potential to emit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limitation.

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II. **Operational Restrictions**

1. None

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

1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stacks serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
- 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 emission incident; and
 - any corrective actions taken to minimize or eliminate the visible emissions.
- If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.
2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible fugitive 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;

- 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.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

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IV. Reporting Requirements

1. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions. 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 semiannual written reports that (a) identify all days during which any visible fugitive particulate emissions were observed from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible fugitive particulate emissions. 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.

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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-
53.7 lbs/hr PE

Applicable Compliance Method-
If required, the permittee shall demonstrate compliance with the PE limitation above based on the test results of stack testing conducted in accordance with OAC rule 3745-17-03(B)(10) using Methods 1 - 5 of 40 CFR, Part 60, Appendix A.
 - b. Emission Limitation:
Visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method: If required, the permittee shall demonstrate compliance with the visible PE limitation above in accordance with OAC rule 3745-17-03(B)(1).
 - c. Emission Limitation:
Visible PE shall not exceed 20% opacity, as a 3-minute average.

Applicable Compliance Method: If required, the permittee shall demonstrate compliance with the visible PE limitation above in accordance with OAC rule 3745-17-03(B)(3).

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VI. Miscellaneous Requirements

1. None

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Facility ID: 0829700165 Emissions Unit ID: F104 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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

state law only.

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

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

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II. Operational Restrictions

1. None

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III. Monitoring and/or Record Keeping Requirements

1. None

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IV. Reporting Requirements

1. None

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V. Testing Requirements

1. None

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VI. Miscellaneous Requirements

1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0829700165 Emissions Unit ID: F105 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Cement Bulk Loader #1 with No. 1 Bulkloader Fabric Filter, SDC-A Fabric Filter, SDC-R Fabric Filter, SDC-B Fabric Filter, SDC-M Fabric Filter;	OAC rule 3745-17-07(B)	Visible particulate emissions (PE) shall not exceed 20% opacity, as a 3-minute average.
Cement Bulk Loader No. 2 with E.D.C Fabric Filter and No. 2 Bulkloader W.D.C.;	OAC rule 3745-17-08(B)(3)	0.030 grain PE per dry standard cubic foot or no visible PE from the stack, whichever is less stringent
Cement Bulk Loader #3 with #3 Bulkloader Fabric Filter and #3 Spout D.C.	40 CFR Part 63, Subpart LLL	See Part II - Specific Facility Terms and Conditions.

2. **Additional Terms and Conditions**

a. This emissions unit is located in an "Appendix A" area as indicated in OAC rule 3745-17-08. Therefore, the emissions unit is subject to the RACM requirements established in OAC rule 3745-17-08(B) and the visible emission limitations specified in OAC rule 3745-17-07(B).

b. OAC rules 3745-17-11 and 3745-17-07(A) are not applicable to this emissions unit because all the PE were fugitive at the time of installation (the emissions unit was installed 1955). In 1990, control equipment (fabric filters) was added. All the PE were captured and routed to the fabric filters. The PE captured and routed are subject to 0.03 grain/dscf, or no VEs from the stack, whichever is less stringent, pursuant to OAC rule 3745-17-08(B)(3), and any residual fugitive emissions are subject to the 20% opacity, as a 3-minute average, pursuant to OAC rule 3745-17-07(B).

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II. Operational Restrictions

1. None

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the fabric filters serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
- 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 emission incident; and
 - any corrective actions taken to eliminate the visible emissions.
2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible fugitive 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.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

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IV. Reporting Requirements

1. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the fabric filters serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. 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 semiannual written reports that (a) identify all days during which any visible fugitive particulate emissions were observed from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible fugitive particulate emissions. 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.

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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 PE shall not exceed 20 percent opacity, as a 3-minute average.

Applicable Compliance Method-
If required, compliance shall be determined by visible emission evaluations performed in accordance with U.S. EPA Reference Method 9 of 40 CFR Part 60, Appendix A.
 - b. Emission Limitation-
0.030 grain/dscf

Applicable Compliance Method-
If required, the permittee shall demonstrate compliance with the PE limitation above in accordance with OAC rule 3745-17-03(B)(7).
 - c. Emission Limitation-
No visible emissions

Applicable Compliance Method-
If required, compliance shall be determined by visible emission evaluations performed in accordance with U.S. EPA Reference Method 22 of 40 CFR Part 60, Appendix A.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0829700165 Emissions Unit ID: F105 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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

1. None.

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

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

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

- 1. None

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II. Operational Restrictions

- 1. None

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III. Monitoring and/or Record Keeping Requirements

- 1. None

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IV. Reporting Requirements

- 1. None

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V. Testing Requirements

- 1. None

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VI. Miscellaneous Requirements

- 1. None

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Facility ID: 0829700165 Emissions Unit ID: F106 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Unpaved Plant Roadways and Parking Areas at the Quarry Plant	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)(2)	reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.I.2.d, f and g)
Paved Plant Roadways and Parking Areas at the Quarry Plant	OAC rule 3745-17-07(B)(4)	See A.2.a below. no visible particulate emissions except for 6 minutes during any 60-minute period
	OAC rule 3745-17-08(B)(8), (B)(9)	reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.I.2.e, f and h)

See A.2.a below.

2. Additional Terms and Conditions

- a. The roadways and parking areas at the Quarry Plant are not located in "Appendix A" area as indicated by OAC rule 3745-17-08. However, the Director has determined that the fugitive particulate emissions from the Quarry Plant roadways and parking areas could contribute to violations of OAC rule 3745-15-07 and will need to comply with the requirements of OAC rules 3745-17-07 and 3745-17-08.
- b. The unpaved roadways and parking areas that are covered by this permit and subject to the requirements of OAC rules 3745-17-07 and 3745-17-08 are listed below:
 - unpaved roadways:
 - all unpaved roadways
 - unpaved parking areas:
 - all unpaved parking areas
- c. The paved roadways and parking areas that are covered by this permit and subject to the above-mentioned requirements are listed below:
 - paved roadways:
 - all paved roadways
 - paved parking areas:
 - all paved parking areas
- d. The permittee shall employ reasonably available control measures on all unpaved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the unpaved roadways and parking areas with water at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other equally effective control measures to ensure compliance.
- e. The permittee shall employ reasonably available control measures on all paved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the paved roadways and parking areas by sweeping and/or watering at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other equally effective 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 is paved or takes the characteristics of a paved surface due to the application of certain types of dust suppressants, may be controlled with the control measure(s) specified above for paved surfaces. Any unpaved roadway or parking area that takes the characteristics of a paved roadway or parking area due to the application of certain types of dust suppressants shall remain subject to the visible emission limitation for unpaved roadways and parking areas. Any unpaved roadway or parking area that is paved shall be subject to the visible emission limitation for paved roadways and parking areas.
- h. The permittee shall promptly remove, in such a manner as to minimize or prevent resuspension, earth and/or other material from paved streets onto which such material has been deposited by trucking or earth moving equipment or erosion by water or other means.
- i. pen-bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times if the control measure is necessary for the materials being transported.
- j. Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-17-08.

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II. Operational Restrictions

1. None

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III. Monitoring and/or Record Keeping Requirements

1. Except as otherwise provided in this section, the permittee shall perform inspections of each of the roadway segments and each parking area in accordance with the following frequencies:

paved roadways and parking areas minimum inspection frequency

All daily

unpaved roadways and parking areas minimum inspection frequency

All daily
2. The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above-identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.
3. The permittee 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 3.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 reporting requirements of the General Terms and Conditions of this permit.

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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 method:
 - a. Emission Limitation: no visible particulate emissions from paved roadways except for 6 minutes during any 60-minute period

Applicable Compliance Method: If required, the permittee shall demonstrate compliance with the visible PE limitation above in accordance with OAC rule 3745-17-03(B)(4).
 - b. Emission Limitation: no visible particulate emissions from unpaved roadways except for 13 minutes during any 60-minute period

Applicable Compliance Method: If required, the permittee shall demonstrate compliance with the visible PE limitation above in accordance with OAC rule 3745-17-03(B)(4).

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VI. Miscellaneous Requirements

1. None

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Facility ID: 0829700165 Emissions Unit ID: F106 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

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

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II. Operational Restrictions

1. None

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III. Monitoring and/or Record Keeping Requirements

1. None

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IV. Reporting Requirements

1. None

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V. Testing Requirements

1. None

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VI. Miscellaneous Requirements

1. None

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Facility ID: 0829700165 Emissions Unit ID: P003 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Cement Preheater/Kiln and Alkali Bypass	40 CFR, Part 63 Subpart LLL	Particulate emissions (PE) shall not exceed 0.30 lb/ton of feed (dry basis) to the kiln. Visible PE shall not exceed 20 percent opacity, as a six-minute average. Dioxins and furans (D/F) emissions shall not exceed 8.7 X 10E-11 gr/dscf [toxicity equivalents for dioxins and furans (TEQ)] corrected to seven percent oxygen; or 1.7 X 10E-10 gr/dscf (TEQ) corrected to seven percent oxygen, when the average of the performance test run average temperatures at the inlet to the particulate matter control device is 400 degrees Fahrenheit or less. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to 40 CFR Part 63 Subpart LLL. The visible PE limitation specified by this rule is less stringent than the visible PE limitation specified by 40 CFR, Part 63, Subpart LLL. Sulfur dioxide (SO2) emissions shall not exceed 9.0 lbs/ton of clinker produced. See A.I.2.a. See A.I.2.a. See A.I.2.b and A.I.2.c.
	OAC rule 3745-17-11(B)	
	OAC rule 3745-17-07(A)	
	OAC rule 3745-18-35(I)	
	OAC rule 3745-17-07(B)	
	OAC rule 3745-17-08(B)	
	OAC rule 3745-14-11	

2. Additional Terms and Conditions

- a. This emissions unit is not located in an "Appendix A" area as indicated in OAC rule 3745-17-08. Therefore, the emissions unit is not subject to the RACM requirements established in OAC rule 3745-17-08(B) and the visible emission limitations specified in OAC rule 3745-17-07(B).
- b. In accordance with OAC rule 3745-14-11 (B) and after April 30, 2004, the permittee shall not operate the kiln during May 1 through September 30, unless the permittee has installed and operates the kiln, during May 1 through September 30, with low-Nitrogen Oxides (NOx) burners, mid-kiln system firing, or alternative control techniques, subject to approval by the Director, that achieve at least the same emissions decreases as low-NOx burners or mid-kiln system firing.
- c. In accordance with OAC rule 3745-14-11 (D), the requirements of OAC rule 3745-14-11 shall not apply to the following periods of operation:
 - i. start-up and shutdown periods and periods of malfunction, not to exceed thirty-six consecutive hours; and
 - ii. regularly scheduled maintenance activities.

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II. Operational Restrictions

- 1. The kiln shall operate such that the three-hour rolling average inlet temperature of the particulate matter control device (PMCD) and the alkali by-pass (PMCD) is no greater than the average temperature established during the most recent performance test that demonstrated that the emissions unit was in compliance.
- 2. The permittee shall only employ coal, virgin No. 2 fuel oil, petroleum coke, coke breeze and/or natural gas as fuel in this emissions unit.

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect or require the coal/petroleum coke/coke breeze supplier to collect a representative grab sample of each shipment of coal/petroleum coke/coke breeze that is received for burning in this emissions unit. The permittee shall perform or require the supplier to perform the coal/petroleum coke/coke breeze sampling in accordance with ASTM method D2234, and analyze the coal/petroleum coke/coke breeze sample for sulfur content (percent by weight).

The analytical methods for sulfur content determination shall be: ASTM method D3177 or ASTM method D4239. Alternative, equivalent methods may be used upon written approval by the appropriate Ohio EPA District Office or local air agency.

2. The permittee shall collect or require to be collected on a daily basis, a representative grab sample of raw material slurry, clinker, and cement kiln dust produced from or fed into this emissions unit. All the samples collected each calendar month shall be combined into a composite sample. Each composite sample shall be analyzed for sulfur content (percent by weight). Alternately, an analysis may be performed for each daily grab sample, and the analytical results for all the daily grab samples may be used to calculate a monthly arithmetic average.

The analysis for sulfur content shall be performed in accordance with ASTM method C114. Alternative equivalent methods may be used upon written approval by the appropriate Ohio EPA District Office or local air agency.

3. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emissions rate (in lbs/mmBtu). (The sulfur dioxide emissions rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).) A shipment may be comprised of multiple tank truck loads from the same supplier's batch and the quality of the oil for those loads may be represented by a single batch analysis from the supplier.

The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of oil that is received for burning in this emissions unit. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR, Part 60, Appendix A, Method 19, or the appropriate ASTM methods (such as, ASTM methods D240, D4294, D6010), or equivalent methods as approved by the Director.

4. In addition to fuel analysis information, the permittee shall calculate and record each month the following information for this emissions unit:

- a. the amount of coal/petroleum coke/coke breeze shipment burned, in pounds, and the virgin No. 2 fuel oil burned, in gallons, and the natural gas burned, in mm cu. ft.;

- b. the amount of raw material slurry, clinker, and cement kiln dust, in pounds, used or produced;

- c. the total number of pounds of sulfur dioxide emitted, calculated as follows:

- i. multiply the sulfur content of coal/petroleum coke/coke breeze by the number of pounds of coal/petroleum coke/coke breeze that were burned;

- ii. multiply the sulfur content of virgin No. 2 fuel oil by the number of gallons of virgin No. 2 fuel oil that were burned;

- iii. multiply the AP-42 emission factor of 0.6 lb SO₂/mm cu. ft of natural gas burned by the amount of natural gas burned;

- iv. multiply the sulfur content of the raw material slurry by the number of pounds of raw material slurry processed;

- v. multiply the sulfur content of the clinker by the number of pounds of clinker produced;

- vi. multiply the sulfur content of the cement kiln dust by the number of pounds of cement kiln dust produced; and

- vii. calculate the total SO₂ emissions, in pounds, as follows:

$$\text{SO}_2 \text{ emissions (lbs/month)} = [2 * [(i + ii + iii + iv) - (v + vi)]] * (1 - 0.846)**$$

- d. the total number of tons of cement made from clinker produced during each calendar month; and

- e. the sulfur dioxide emitted from this emissions unit for each ton of cement (made from clinker produced) produced, i.e., the total pounds of sulfur dioxide emitted from this emissions unit during each calendar month divided by the number of tons of cement made from clinker produced during each calendar month.

* This factor (64/32) is required to convert sulfur to SO₂ since 1 lb-mole (32 lbs) of sulfur will yield 1 lb-mole (64 lbs) of SO₂ (S + O₂ ----> SO₂).

** Based on the most recent stack test conducted in March 2002 for this emissions unit, the addition of limestone to the raw material feed was shown to result in a control efficiency of 84.6% for SO₂. The tested SO₂ emission rate was 1.47 lbs SO₂/ton of clinker produced, while the calculated SO₂ emission rate (based on the coal/petroleum coke/coke breeze and virgin No. 2 fuel oil analyses) was 9.52 lbs SO₂/ton of clinker produced.

Until another stack test is completed, a control efficiency of 84.6% shall be used to calculate the SO₂ emission rates for this emissions unit.

5. The permittee shall use a continuous opacity monitoring system(s) (COMS) to demonstrate and monitor compliance with the 20% opacity standard.

The permittee shall calibrate, maintain, and continuously operate the COMS in compliance with the quality assurance procedures and requirements in 40 CFR, Part 63.1340 and the Performance Specification 1 in Appendix B of 40 CFR, Part 60.

6. The permittee shall conduct an inspection of the components of the combustion system of each kiln or in-line kiln raw mill at least once per year.
7. The permittee shall install, calibrate, maintain, and operate a particulate matter CEMS to demonstrate and monitor compliance with the particulate matter standard of 0.15 kg/Mg (0.30 lb/ton) dry raw material feed. However, compliance with the requirements in this section to install, calibrate, maintain and operate the PM CEMS is not required until such time that the USEPA promulgates all performance specifications and operational requirements applicable to PM CEMS.
8. In accordance with OAC rule 3745-14-11 (C)(2), the permittee shall produce and maintain records of the following:
 - a. the emissions, in pounds of NOx per ton of clinker produced from the kiln;
 - b. the date, time and duration of any startup, shutdown or malfunction of the cement kiln or the emissions monitoring equipment;
 - c. the results of any emissions testing; and
 - d. the daily cement production from the kiln, in tons.

All records kept in compliance with OAC rule 3745-14-11 shall be kept on site for a minimum of two years and be made available to the Director upon request.

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IV. Reporting Requirements

1. The permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency documenting all instances of stack opacity values in excess of the limitations specified in 40 CFR, Part 63, Subpart LLL, detailing the date, commencement and completion times, duration, magnitude (percent opacity), reason (if known), and corrective action(s) taken (if any) of each 6-minute block average above the applicable opacity limitation(s).

The reports shall also identify any COMS downtime while the emissions unit was on line (date, time, duration and reason) along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of emissions unit operating time of the analyzer while the emissions unit was on line shall be included in the quarterly report.

If there are no excess emissions during the calendar quarter, the permittee shall submit a statement to that effect along with the date, time, reason, and corrective action(s) taken for each time period of monitoring system malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line also shall be included in the quarterly report.

These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.

2. The permittee shall submit quarterly deviation (excursions) reports that identify all exceedances of the SO₂ emission limitation of 9.0 lbs/ton of clinker produced, as calculated in accordance with section A.III of this permit. The deviation reports shall be submitted in accordance with the General Terms and Condition of this permit, paragraph A.I.c.
3. In accordance with OAC rule 3745-14-11 (C)(1)(a), and by May 1, 2004, the permittee shall submit to the Director and Administrator the identification number and type of each unit subject to the rule, the name and address of the plant where the unit is located, and the name and telephone number of the person responsible for demonstrating the compliance of the unit with OAC rule 3745-14-11.
4. In accordance with OAC rule 3745-14-11 (C)(1)(b), the permittee shall submit a report documenting the total NO_x emissions from May 1 through September 30 of each year to the Director and Administrator by October 31 of each year beginning in 2004. The report shall be submitted by October 31 of each year.

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V. Testing Requirements

- a. Emission Limitation-
 1. 0.30 lb PE/ton of feed (dry basis) to the kiln

Applicable Compliance Method-
The permittee shall demonstrate compliance with the allowable PE limitation based on the results of emission testing conducted in accordance with USEPA Methods 1 - 5, 40 CFR, Part 60, Appendix A.
 - b. Emission Limitation:
Visible PE shall not exceed 20 percent opacity, as a 6-minute average.

Applicable Compliance Method:

- The permittee shall demonstrate compliance with the visible emissions limitation in accordance with the record keeping requirements established in section A.III of the terms and conditions of this permit.
- c. Emission Limitations-
- 8.7 X 10E-11 gr dioxin/furans/dscf (TEQ), corrected to seven percent oxygen; or
 - 1.7 X 10E-10 gr dioxin/furans/dscf (TEQ), corrected to seven percent oxygen, when the average of the performance test run average temperatures at the inlet to the particulate matter control device is 400 degrees Fahrenheit or less.
- Applicable Compliance Method-
- The permittee shall demonstrate compliance with the allowable dioxin/furans limitations above based on the results of emission testing conducted in accordance with USEPA Method 23, 40 CFR, Part 60, Appendix A.
- d. Emission Limitation-
- 9.0 lbs SO₂/ton of clinker produced
- Applicable Compliance Method-
- The permittee shall demonstrate compliance with the sulfur dioxide emission limitation above based on the record keeping requirements in section A.III and the results of emission testing conducted in accordance with USEPA Methods 1 - 4 and 6, 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 2.5 years after permit issuance and within six months prior to permit expiration.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for PE, dioxin/furans and SO₂.
 - c. The test methods which shall be employed to demonstrate compliance with the allowable mass emission rates for PE and SO₂ are:
 - i. for PE, Methods 1 - 5 of 40 CFR, Part 60, Appendix A;
 - ii. for SO₂, Methods 1 - 4 and 6 of 40 CFR, Part 60, Appendix A; and
 - iii. for dioxin/furans, Method 23 of 40 CFR, Part 60, Appendix A.
 - d. The test(s) shall be conducted while the emissions unit is operating at its maximum capacity, unless otherwise approved by the appropriate Ohio EPA District Office or local air agency. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the to the appropriate Ohio EPA District Office or local air agency's refusal to accept the results of the emission test (s).
- Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.
- A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, when warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.
3. The permittee shall conduct or have conducted, emissions testing for this emissions unit in accordance with the following requirements:
- a. The emissions testing shall be conducted on an annual basis to measure air emissions in pounds of NO_x per ton of clinker produced.
 - b. The test methods which shall be employed are Reference Methods 1 - 4, 7, 7A, 7C, or 7E of 40 CFR, Part 60 Appendix A.
 - c. The test(s) shall be conducted while the emissions unit is operating at its maximum capacity, unless otherwise approved by the appropriate Ohio EPA District Office or local air agency. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the to the appropriate Ohio EPA District Office or local air agency's refusal to accept the results of the emission test (s).
- Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the

operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, when warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0829700165 Emissions Unit ID: P003 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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

- 1. None.

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

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

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

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II. **Operational Restrictions**

- 1. None

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

- 1. None

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IV. **Reporting Requirements**

- 1. None

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V. **Testing Requirements**

- 1. None

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0829700165 Emissions Unit ID: P011 Issuance type: Title V Proposed Permit

A. **State and Federally Enforceable Section**

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

- 1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Enclosed Drag Conveyor (F166), Bucket Elevator (F168), Enclosed Drag Conveyor (F169), equipped with a Fabric Filter identified as F176	OAC rule 3745-31-05(A)(3) (PTI #08-2136)	11.5 lbs/day and 2.1 tons/yr of particulate emissions (PE)
		0.030 grain of PE per dry standard cubic foot of exhaust gases or there shall be no visible emissions from the stack
		See A.I.2.a.
	OAC rule 3745-17-07(B)(1)	See A.I.2.b.
	OAC rule 3745-17-08(B)	See A.1.2.b.
	40 CFR Part 63, Subpart LLL	See Part II - Specific Facility Terms and Conditions.
	OAC rule 3745-17-07(A)	The visible PE limitation specified by this rule is less stringent than the visible PE limitation established by OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-11(B)	The PE limitation specified by this rule is less stringent than the PE limitation established by OAC rule 3745-31-05(A)(3).

2. **Additional Terms and Conditions**

- a. The conveyor system shall be enclosed (covered). All captured PE shall be vented to a fabric filter system.
- b. This emissions unit is not located in an "Appendix A" area as indicated in OAC rule 3745-17-08. Therefore, the emissions unit is not subject to the RACM requirements established in OAC rule 3745-17-08(B) and the visible emission limitations specified in OAC rule 3745-17-07(B).

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II. **Operational Restrictions**

- 1. None

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

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

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

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IV. Reporting Requirements

1. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stacks serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. 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.

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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-
11.5 lbs/day PE

Applicable Compliance Method-
The daily allowable PE emission limit is based on the maximum grain loading of 0.03 gr/dscf multiplied by the maximum exhaust gas flow rate (1,850 dscf/minute) (from dust collector F176); by 60 minutes/hour and 24 hours/day; and divided 7,000 grains/pound.
 - b. Emission Limitation-
2.1 tons/yr PE

Applicable Compliance Method-
As long as compliance with the daily emission limitation is maintained, compliance with the annual emission limitation shall be assumed (the annual limitation was determined by multiplying the daily limitation by 365, and then dividing by 2000).
 - c. Emission Limitation-
0.030 grain PE/dscf

Applicable Compliance Method-
Compliance shall be based on the results of stack testing conducted in accordance with U.S. EPA Reference Methods 1 through 5 of 40 CFR, Part 60, Appendix A.
 - d. Emission Limitation-
no visible emissions

Applicable Compliance Method-
If required, compliance shall be determined by visible emission evaluations performed in accordance with U.S. EPA Reference Method 22 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 permit issuance.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for PE.
 - c. The test methods which shall be employed to demonstrate compliance with the allowable mass emission rate for PE are: Methods 1 - 5 of 40 CFR, Part 60, Appendix A.
 - d. The test(s) shall be conducted while the emissions unit is operating at its maximum capacity, unless otherwise approved by the appropriate Ohio EPA District Office or local air agency.
3. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the to the appropriate Ohio EPA District Office or local air agency's refusal to accept the results of the emission test (s).

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, when warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0829700165 Emissions Unit ID: P011 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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

1. None.

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

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

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

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II. **Operational Restrictions**

1. None

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

1. None

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IV. **Reporting Requirements**

1. None

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V. **Testing Requirements**

1. None

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0829700165 Emissions Unit ID: P012 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2, 4000-ton clinker storage silos (F170A and F170B), equipped with a fabric filter identified as F172	OAC rule 3745-31-05(A)(3) (PTI #08-2136)	18.5 lbs/day and 3.4 tons/yr of particulate emissions (PE)
		0.030 grain of PE per dry standard cubic foot of exhaust gases or there shall be no visible emissions from the stack
		See A.I.2.a.
	OAC rule 3745-17-07(B)(1)	See A.I.2.b.
	OAC rule 3745-17-08(B)	See A.1.2.b.
	40 CFR Part 63, Subpart LLL	See Part II - Specific Facility Terms and Conditions.
	OAC rule 3745-17-07(A)	The visible PE limitation specified by this rule is less stringent than the visible PE limitation established by OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-11(B)	The PE limitation specified by this rule is less stringent than the PE limitation established by OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

- a. The silos shall be adequately enclosed such that the collection efficiency is sufficient to eliminate visible particulate emissions of fugitive dust at the point(s) of capture. All captured PE shall be vented to a fabric filter system.
- b. This emissions unit is not located in an "Appendix A" area as indicated in OAC rule 3745-17-08. Therefore, the emissions unit is not subject to the RACM requirements established in OAC rule 3745-17-08(B) and the visible emission limitations specified in OAC rule 3745-17-07(B).

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II. Operational Restrictions

- 1. None

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III. Monitoring and/or Record Keeping Requirements

- 1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;

- d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.
2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions at the points of capture associated with this emissions unit. The presence or absence of any visible fugitive 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 eliminate the visible emissions.

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IV. Reporting Requirements

1. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the 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 semiannual written reports that (a) identify all days during which any visible fugitive particulate emissions were observed at the points of capture associated with this emissions unit and (b) describe any corrective actions taken to eliminate the visible fugitive particulate emissions. 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.

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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-
18.5 lbs/day PE

Applicable Compliance Method-
The daily allowable PE emission limit is based on the maximum grain loading of 0.03 gr/dscf multiplied by the maximum exhaust gas flow rate (3,000 dscf/minute) (from dust collector F172); by 60 minutes/hour and 24 hours/day; and divided 7,000 grains/pound.
 - b. Emission Limitation-
3.4 tons/yr PE

Applicable Compliance Method-
As long as compliance with the daily emission limitation is maintained, compliance with the annual emission limitation shall be assumed (the annual limitation was determined by multiplying the daily limitation by 365, and then dividing by 2000).
 - c. Emission Limitation-
0.030 grain PE/dscf

Applicable Compliance Method-
If required, compliance shall be based on the results of stack testing conducted in accordance with U.S. EPA Reference Methods 1 through 5 of 40 CFR, Part 60, Appendix A.
 - d. Emission Limitation-
no visible emissions

Applicable Compliance Method-
If required, compliance shall be determined by visible emission evaluations performed in accordance with U.S. EPA Reference Method 22 of 40 CFR, Part 60, Appendix A.

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VI. Miscellaneous Requirements

1. None

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Facility ID: 0829700165 Emissions Unit ID: P012 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

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

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II. Operational Restrictions

1. None

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III. Monitoring and/or Record Keeping Requirements

1. None

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IV. Reporting Requirements

1. None

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V. Testing Requirements

1. None

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VI. Miscellaneous Requirements

1. None

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Facility ID: 0829700165 Emissions Unit ID: P013 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
1000-ton concrete Silo F173, equipped with a baghouse identified as F175	OAC rule 3745-31-05(A)(3) (PTI #08-2136)	15.1 lbs/day and 2.8 tons/yr of particulate emissions (PE)
		0.030 grain of PE per dry standard cubic foot of exhaust gases or there shall be no visible emissions from the stack
		See A.1.2.a.
	OAC rule 3745-17-07(B)(1)	See A.1.2.b.
	OAC rule 3745-17-08(B)	See A.1.2.b.
	40 CFR Part 63, Subpart LLL	See Part II - Specific Facility Terms and Conditions.
	OAC rule 3745-17-07(A)	The visible PE limitation specified by this rule is less stringent than the visible PE limitation established by OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-11(B)	The PE limitation specified by this rule is less stringent than the PE limitation established by OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

- a. The hot clinker storage shall be adequately enclosed such that the collection efficiency is sufficient to eliminate visible particulate emissions of fugitive dust at the point(s) of capture. All captured PE shall be vented to a baghouse.
- b. This emissions unit is not located in an "Appendix A" area as indicated in OAC rule 3745-17-08. Therefore, the emissions unit is not subject to the RACM requirements established in OAC rule 3745-17-08(B) and the visible emission limitations specified in OAC rule 3745-17-07(B).

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II. Operational Restrictions

1. None

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III. Monitoring and/or Record Keeping Requirements

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

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IV. Reporting Requirements

1. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the baghouse serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. 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 semiannual written reports that (a) identify all days during which any visible fugitive particulate emissions were observed at the points of capture associated with this emissions unit and (b) describe any corrective actions taken to eliminate the visible fugitive particulate emissions. 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.

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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-
15.1 lbs/day PE

Applicable Compliance Method-
The daily allowable PE emission limit is based on the maximum grain loading of 0.03 gr/dscf multiplied by the maximum exhaust gas flow rate (2,450 dscf/minute) (from dust collector F175); by 60 minutes/hour and 24 hours/day; and divided 7,000 grains/pound.
 - b. Emission Limitation-
2.8 tons/yr PE

Applicable Compliance Method-
As long as compliance with the daily emission limitation is maintained, compliance with the annual emission limitation shall be assumed (the annual limitation was determined by multiplying the daily limitation by 365, and then dividing by 2000).
 - c. Emission Limitation-
0.030 grain PE/dscf

Applicable Compliance Method-
Compliance shall be based on the results of stack testing conducted in accordance with U.S. EPA Reference Methods 1 through 5 of 40 CFR, Part 60, Appendix A.
 - d. Emission Limitation-
no visible emissions

Applicable Compliance Method-
If required, compliance shall be determined by visible emission evaluations performed in accordance with U.S. EPA Reference Method 22 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 permit issuance.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for PE.
 - c. The test methods which shall be employed to demonstrate compliance with the allowable mass emission rate for PE are: Methods 1 - 5 of 40 CFR, Part 60, Appendix A.
 - d. The test(s) shall be conducted while the emissions unit is operating at its maximum capacity, unless otherwise approved by the appropriate Ohio EPA District Office or local air agency.
3. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the to the appropriate Ohio EPA District Office or local air agency's refusal to accept the results of the emission test

(s).

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, when warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

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VI. Miscellaneous Requirements

- 1. None

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Facility ID: 0829700165 Emissions Unit ID: P013 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

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

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II. Operational Restrictions

- 1. None

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III. Monitoring and/or Record Keeping Requirements

- 1. None

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IV. Reporting Requirements

- 1. None

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V. Testing Requirements

- 1. None

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VI. **Miscellaneous Requirements**

1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0829700165 Emissions Unit ID: P014 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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

1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Vibrating Feeders, F177 (1-4), equipped with Fabric Filters F178 (1-4); Hooded Belt Conveyor, F181 Controlled by Fabric Filter 182A; Vibrating Feeder, F179, Controlled by Fabric Filter 182A	OAC rule 3745-31-05(A)(3) (PTI #08-2136)	40.8 lbs/day and 7.4 tons/yr of particulate emissions (PE)
		0.030 grain of PE per dry standard cubic foot of exhaust gases or there shall be no visible emissions from the stack
		See A.I.2.a.
	OAC rule 3745-17-07(B)(1)	See A.I.2.b.
	OAC rule 3745-17-08(B)	See A.I.2.b.
	40 CFR Part 63, Subpart LLL	See Part II - Specific Facility Terms and Conditions.
	OAC rule 3745-17-07(A)	The visible PE limitation specified by this rule is less stringent than the visible PE limitation established by OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-11(B)	The PE limitation specified by this rule is less stringent than the PE limitation established by OAC rule 3745-31-05(A)(3).

2. **Additional Terms and Conditions**

- a. The vibrating feeders and belt conveyor shall be adequately enclosed such that the collection efficiency is sufficient to eliminate visible particulate emissions of fugitive dust at the point(s) of capture. All captured PE shall be vented to a fabric filter system.
- b. This emissions unit is not located in an "Appendix A" area as indicated in OAC rule 3745-17-08. Therefore, the emissions unit is not subject to the RACM requirements established in OAC rule 3745-17-08(B) and the visible emission limitations specified in OAC rule 3745-17-07(B).

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II. **Operational Restrictions**

1. None

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

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

observed, the permittee shall also note the following in the operations log:

- a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.
2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions at the points of capture associated with this emissions unit. The presence or absence of any visible fugitive 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 eliminate the visible emissions.

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IV. Reporting Requirements

1. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the 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 semiannual written reports that (a) identify all days during which any visible fugitive particulate emissions were observed at the points of capture associated with this emissions unit and (b) describe any corrective actions taken to eliminate the visible fugitive particulate emissions. 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.

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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-
40.8 lbs/day PE

Applicable Compliance Method-
The daily allowable PE emission limit is based on the maximum grain loading of 0.03 gr/dscf multiplied by the maximum exhaust gas flow rate (6,600 dscf/minute) (from dust collector F178 (1-4) and 182A); by 60 minutes/hour and 24 hours/day; and divided 7,000 grains/pound.
 - b. Emission Limitation-
7.4 tons/yr PE

Applicable Compliance Method-
As long as compliance with the daily emission limitation is maintained, compliance with the annual emission limitation shall be assumed (the annual limitation was determined by multiplying the daily limitation by 365, and then dividing by 2000).
 - c. Emission Limitation-
0.030 grain PE/dscf

Applicable Compliance Method-
If required, compliance shall be based on the results of stack testing conducted in accordance with U.S. EPA Reference Methods 1 through 5 of 40 CFR, Part 60, Appendix A.
 - d. Emission Limitation-
no visible emissions

Applicable Compliance Method-
If required, compliance shall be determined by visible emission evaluations performed in accordance with U.S. EPA Reference Method 22 of 40 CFR, Part 60, Appendix A.

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0829700165 Emissions Unit ID: P014 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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

- 1. None.

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

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

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

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II. **Operational Restrictions**

- 1. None

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

- 1. None

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IV. **Reporting Requirements**

- 1. None

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V. **Testing Requirements**

- 1. None

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VI. **Miscellaneous Requirements**

- 1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0829700165 Emissions Unit ID: P901 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Limestone Crusher with Baghouse B10; Screen with Baghouse B49; Handling and Storage with Baghouse B37	OAC rule 3745-17-11(B)	73.9 lbs/hr particulate emissions (PE) (based on Table I of OAC rule 3745-17-11)
	OAC rule 3745-17-07(A)	Visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-08(B)	See A.I.2.b.
	OAC rule 3745-17-07(B)(1)	See A.I.2.b.

2. Additional Terms and Conditions

- a. The 73.9 lbs/hr PE limitation is greater than the emissions unit's potential to emit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limitation.
- b. This emissions unit is not located in an "Appendix A" area as indicated in OAC rule 3745-17-08. Therefore, the emissions unit is not subject to the RACM requirements established in OAC rule 3745-17-08(B) and the visible emission limitations specified in OAC rule 3745-17-07(B).

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II. Operational Restrictions

1. The permittee shall operate and maintain a water spray system in the dumping pit and plastic strip curtains at the tunnel entrance/exit at all times when this emissions unit is in operation.

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III. Monitoring and/or Record Keeping Requirements

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

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

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IV. Reporting Requirements

1. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stacks serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions. 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.

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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-
73.9 lbs/hr PE

Applicable Compliance Method-
If required, the permittee shall demonstrate compliance with the PE limitation above based on the test results of stack testing conducted using methods 1-5 of 40 CFR Part 60, Appendix A.

Compliance with the hourly allowable PE limitation may also be determined by multiplying the maximum quantity of limestone processed, 750 tons/hr, by the emission factor of 0.001249 lb PE/ton of limestone crushed.*

* This emission factor is the sum of the AP-42, Table 11.6-4 (revised 1/95) emission factors for the following operations:
 - i. limestone crushing with a fabric filter of 0.0010 lb/ton;
 - ii. limestone screening with a fabric filter of 0.00022 lb/ton; and
 - iii. limestone transfer with a fabric filter of 0.000029 lb/ton.
 - b. Emission Limitation-
Visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method-
If required, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1).

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VI. Miscellaneous Requirements

1. None

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Facility ID: 0829700165 Emissions Unit ID: P901 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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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: 0829700165 Emissions Unit ID: P902 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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

- 1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Belt Conveyors and Clay Crusher, Area B100, equipped with Baghouse B116; Additive Bins in Area C equipped with Baghouses C5 and C38; Iron Dust Bin in Area C Controlled by Baghouse C58	OAC rule 3745-31-05(A)(3) (PTI # 08-834)	0.030 grain of particulate emissions (PE) per dry standard cubic foot of exhaust gases or there shall be no visible emissions from the stack
		23.64 tons/yr PE
		See A.I.2.b.
	OAC rule 3745-17-07(B)	See A.I.2.a.
	OAC rule 3745-17-08(B)	See A.I.2.a.

40 CFR Part 60, Subpart LLL
OAC rule 3745-17-07(A)

See Part II - Specific Facility Terms and Conditions.
The visible PE limitation specified by this rule is less stringent than the visible PE limitation established by OAC rule 3745-31-05(A)(3).

OAC rule 3745-17-11(B)

The PE limitation specified by this rule is less stringent than the PE limitation established by OAC rule 3745-31-05(A)(3).

2. **Additional Terms and Conditions**

- a. This emissions unit is not located in an "Appendix A" area as indicated in OAC rule 3745-17-08. Therefore, the emissions unit is not subject to the RACM requirements established in OAC rule 3745-17-08(B) and the visible emission limitations specified in OAC rule 3745-17-07(B).
- b. The belt conveyors, clay crusher, and additive bins in areas B100 and C shall be adequately enclosed such that the collection efficiency is sufficient to eliminate visible particulate emissions of fugitive dust at the point(s) of capture. All captured PE shall be vented to the baghouses identified above.

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II. **Operational Restrictions**

1. None

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

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

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IV. **Reporting Requirements**

1. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the baghouses serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. 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 semiannual written reports that (a) identify all days during which any visible fugitive particulate emissions were observed at the points of capture associated with this emissions unit and (b) describe any corrective actions taken to eliminate the visible fugitive particulate emissions. 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.

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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-
23.64 tons/yr PE

Applicable Compliance Method-
Compliance may be determined as follows:
 - i. multiply the AP-42 emission factor for the raw mill feed belt of 0.0031 lb PE/ton, Table 11.6-4 (revised 1/95), by the maximum amount of material transferred (tons/yr), and then divide by 2000;
 - ii. multiply the AP-42 emission factor for raw mill of 0.012 lb PE/ton, from Table 11.6-4 (revised 1/95), by the maximum amount of material processed in the clay crusher (tons/yr), and then divide by 2000;
 - iii. multiply the RACM emission factor for raw material storage of 0.05 lb PE/ton, Table 2.13-2, by the maximum annual production of clinker (1,144,920 tons/yr), and then divide by 2000; and
 - iv. sum i + ii + iii, and then multiply the result by a control factor of (1 - 0.999).*

* the control efficiency for the fabric filter dust collection system is assumed to of 99.9%.
- b. Emission Limitation-
0.030 gr PE/dscf

Applicable Compliance Method-
If required, compliance with the PE limitation above shall be based on stack testing conducted in accordance with EPA Reference Methods 1 through 5 of 40 CFR, Part 60, Appendix A..
- c. Emission Limitation-
no visible emissions

Applicable Compliance Method-
If required, compliance shall be determined by visible emission evaluations performed in accordance with U.S. EPA Reference Method 22 of 40 CFR, Part 60, Appendix A.

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0829700165 Emissions Unit ID: P902 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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

- 1. None.

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

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

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

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II. **Operational Restrictions**

- 1. None

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

- 1. None

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IV. **Reporting Requirements**

- 1. None

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V. **Testing Requirements**

- 1. None

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0829700165 Emissions Unit ID: P904 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Clinker Cooling, Quarry Plant, equipped with a baghouse identified as F47	40 CFR, Part 63, Subpart LLL	0.10 lb particulate emissions (PE)/ton feed (dry basis) to the kiln 10 percent opacity, as a six-minute average
	OAC rule 3745-17-11(B)	See Part II - Specific Facility Terms and Conditions. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to 40 CFR, Part 63, Subpart LLL.
	OAC rule 3745-17-07(A)	The visible PE limitation specified by this rule is less stringent than the visible PE limitation established by 40 CFR, Part 63, Subpart LLL.
	OAC rule 3745-17-08(B)	See A.I.2.a.
	OAC rule 3745-17-07(B)	See A.I.2.a.

2. Additional Terms and Conditions

- a. This emissions unit is not located in an "Appendix A" area as indicated in OAC rule 3745-17-08. Therefore, the emissions unit is not subject to the RACM requirements established in OAC rule 3745-17-08(B) and the visible emission limitations specified in OAC rule 3745-17-07(B).

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II. **Operational Restrictions**

1. None

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

1.
 - a. The permittee shall operate and maintain existing equipment to continuously monitor and record the opacity of the particulate emissions from this emissions unit. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13.
 - b. The permittee shall maintain records of all data obtained by the continuous opacity monitoring system including, but not limited to, percent opacity on an instantaneous (one- minute) and 6-minute block average basis, results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.
 - c. A statement of certification of the existing continuous opacity monitoring system shall be maintained on site and shall consist of a letter from the Ohio EPA detailing the results of an Agency review of the certification tests and a statement by the Agency that the system is considered certified in accordance with the requirements of 40 CFR Part 60, Appendix B, Performance Specification 1. Proof of certification shall be made available to the Director (the appropriate Ohio EPA District Office or local air agency) upon request.

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IV. **Reporting Requirements**

1.
 - a. The permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency documenting all instances of opacity values in excess of the limitations specified in 40 CFR, Part 63, Subpart LLL, detailing the date, commencement and completion times, duration, magnitude (percent opacity), reason (if known), and corrective actions taken (if any) of each 6-minute block average above the applicable opacity limitation(s). This report shall also include the summary report described in Figure 1 of 40 CFR, Part 60.7.
 - b. The permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency documenting any continuous opacity monitoring system downtime while the emissions unit was on line (date, time, duration and reason) along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of emissions unit and control equipment malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line shall be included in the quarterly report.

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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-
0.10 lb/ton of feed (dry basis) to the kiln

Applicable Compliance Method-
The permittee shall demonstrate compliance with the allowable PE limitation based on the results of emission testing conducted in accordance with USEPA Methods 1 - 5, 40 CFR, Part 60, Appendix A.
 - b. Emission Limitation-
10% opacity, as a 6-minute average

Applicable Compliance Method
If required, compliance shall be determined by visible emission evaluations performed in accordance with the procedures specified in U.S. EPA Reference 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 2.5 years after permit issuance and within six months prior to permit expiration.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for PE.
 - c. The test methods which shall be employed to demonstrate compliance with the allowable mass emission rate for PE are: Methods 1 - 5 of 40 CFR, Part 60, Appendix A.
 - d. The test(s) shall be conducted while the emissions unit is operating at its maximum capacity, unless

otherwise approved by the appropriate Ohio EPA District Office or local air agency.
 Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the to the appropriate Ohio EPA District Office or local air agency's refusal to accept the results of the emission test (s).

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, when warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0829700165 Emissions Unit ID: P904 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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

- 1. None.

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

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

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

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II. **Operational Restrictions**

- 1. None

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

- 1. None

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IV. **Reporting Requirements**

- 1. None

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V. **Testing Requirements**

1. None

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0829700165 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

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Facility ID: 0829700165 Emissions Unit ID: P906 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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

1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Coal crusher (F242), equipped a fabric filter identified as F274 and coal mill F218	40 CFR Part 60 Subpart Y	20% opacity, as a 6-minute average
	OAC rule 3745-17-11(B)	25.2 lbs/hr particulate emissions (PE) (based on Table I of OAC rule 3745-17-11) [see A.I.2.b]
	OAC rule 3745-17-07(A)	The visible PE limitation specified by this rule is equivalent to the visible PE limitation established by 40 CFR, Part 60, Subpart Y.
	OAC rule 3745-17-07(B)	See A.I.2.a.
	OAC rule 3745-17-08(B)	See A.I.2.a.

2. **Additional Terms and Conditions**

- a. This emissions unit is not located in an "Appendix A" area as indicated in OAC rule 3745-17-08. Therefore, the emissions unit is not subject to the RACM requirements established in OAC rule 3745-17-08(B) and the visible emission limitations specified in OAC rule 3745-17-07(B).
- b. The 25.2 lbs/hr PE limitation is greater than the emissions unit's potential to emit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limitation.

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II. **Operational Restrictions**

1. None

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

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

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

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IV. Reporting Requirements

- 1. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the fabric filter serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. 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.

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V. Testing Requirements

- 1. Compliance with the emission limitation(s) specified in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation-
25.2 lbs/hr PE

Applicable Compliance Method-
If required, the permittee shall demonstrate compliance with the PE limitation above based on the test results of stack testing conducted using methods 1-5 of 40 CFR Part 60, Appendix A.
 - b. Emission Limitation-
20% opacity, as 6-minute average

Applicable Compliance Method-
If required, compliance shall be determined by visible emission evaluations performed in accordance with USEPA Method 9 of 40 CFR Part 60, Appendix A.

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VI. Miscellaneous Requirements

- 1. None

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Facility ID: 0829700165 Emissions Unit ID: P906 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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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: 0829700165 Emissions Unit ID: P907 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Blending Silo (E1), controlled by a fabric filter system identified as E2, an enclosed screw conveyor, and a belt conveyor controlled by a fabric filter identified as E22	40 CFR Part 63 Subpart LLL	10% opacity, as a 6-minute average See Part II - Specific Facility Terms and Conditions.
	OAC rule 3745-17-11(B)	55.4 lbs/hr particulate emissions (PE) (based on Table I of OAC rule 3745-17-11)
	OAC rule 3745-17-07(A)	The visible PE limitation specified by this rule is less stringent than the visible PE limitation established by 40 CFR, Part 63, Subpart LLL.
	OAC rule 3745-17-07(B)	See A.I.2.a.
	OAC rule 3745-17-08(B)	See A.I.2.a.

2. Additional Terms and Conditions

- a. This emissions unit is not located in an "Appendix A" area as indicated in OAC rule 3745-17-08.

Therefore, the emissions unit is not subject to the RACM requirements established in OAC rule 3745-17-08(B) and the visible emission limitations specified in OAC rule 3745-17-07(B).

- b. The 55.4 lbs/hr PE limitation is greater than the emissions unit's potential to emit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limitation.

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II. Operational Restrictions

1. None

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stacks serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
- 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 emission incident; and
 - any corrective actions taken to eliminate the visible emissions.

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IV. Reporting Requirements

1. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stacks serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. 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.

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V. Testing Requirements

1. Compliance with the emission limitation(s) specified in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):
- Emission Limitation-
55.44 lbs/hr PE

Applicable Compliance Method-
The permittee shall demonstrate compliance with the PE limitation above based on the test results of stack testing conducted in accordance with OAC rule 3745-17-03(B)(10).

Compliance may also be determined by multiplying the maximum capacity of the equipment (15 tons/hr) by the RACM emission factor of 0.05 lb PE/ton, Table 2.13-2, and then by a control factor of (1 - 0.95).

* the control efficiency of the fabric filter is assumed to 95%
 - Emission Limitation-
10% opacity, as 6-minute average

Applicable Compliance Method-
If required, compliance shall be determined by visible emission evaluations performed in accordance with USEPA 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:
- The emission testing shall be conducted within 6 months after permit issuance.
 - The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for PE and the allowable opacity limitation.
 - The test methods which shall be employed to demonstrate compliance with the allowable mass emission rate for PE and the allowable opacity limitation are:

- i. for PE: Methods 1 - 5 of 40 CFR, Part 60, Appendix A; and
- ii. for opacity: Method 9 of 40 CFR, part 60, Appendix A.
- d. The test(s) shall be conducted while the emissions unit is operating at its maximum capacity, unless otherwise approved by the appropriate Ohio EPA District Office or local air agency.
- 3. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the to the appropriate Ohio EPA District Office or local air agency's refusal to accept the results of the emission test (s).

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, when warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

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VI. Miscellaneous Requirements

- 1. None

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Facility ID: 0829700165 Emissions Unit ID: P907 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

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

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II. Operational Restrictions

- 1. None

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III. Monitoring and/or Record Keeping Requirements

- 1. None

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IV. Reporting Requirements

- 1. None

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V. Testing Requirements

- 1. None

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VI. Miscellaneous Requirements

- 1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0829700165 Emissions Unit ID: P909 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Coal Unloading Area F-200 (enclosed area and underground hoppers), and Partially Enclosed Conveyors (Quarry Plant)	40 CFR Part 60 Subpart Y OAC rule 3745-17-07(B) OAC rule 3745-17-08(B)	20% opacity, as a 6-minute average See A.I.2.a. See A.I.2.a.

2. Additional Terms and Conditions

- a. This emissions unit is not located in an "Appendix A" area as indicated in OAC rule 3745-17-08. Therefore, the emissions unit is not subject to the RACM requirements established in OAC rule 3745-17-08(B) and the visible emission limitations specified in OAC rule 3745-17-07(B).

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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 fugitive particulate emissions 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 eliminate the visible emissions.

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IV. Reporting Requirements

- 1. The permittee shall submit semiannual written reports that (a) identify all days during which any visible fugitive particulate emissions were observed from this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. 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.

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V. Testing Requirements

- 1. Compliance with the emission limitation(s) specified in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):
 Emission Limitation-
 20% opacity, as 6-minute average

 Applicable Compliance Method-
 If required, compliance shall be determined by visible emission evaluations performed in accordance with USEPA Method 9 of 40 CFR Part 60, Appendix A.

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VI. Miscellaneous Requirements

- 1. None

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Facility ID: 0829700165 Emissions Unit ID: P909 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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

- 1. None.

i. Applicable Emissions Limitations and/or Control Requirements

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

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

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ii. Operational Restrictions

- 1. None

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

- 1. None

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IV. **Reporting Requirements**

- 1. None

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V. **Testing Requirements**

- 1. None

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0829700165 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

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Facility ID: 0829700165 Emissions Unit ID: P911 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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

- 1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Raw Material Unloading and Storage which includes K352 hopper, K303 feed bin, K304 feed bin, K362 fabric filter, K371 fabric filter, K355 vibratory feeder, and K122 belt conveyor	OAC rule 3745-31-05(A)(3)	0.020 grain particulate emissions (PE)/dscf of exhaust gases from the fabric filters, K362 and K371
	PTI #08-3072	0.7 lb/hr, 16.8 lbs/day, 3.1 tons/yr PE, including fugitive dust emissions
		Visible emissions of fugitive dust shall not exceed 5% opacity, as a 3-minute average.
		Visible emissions from each fabric filter stack shall not exceed 5% opacity, as a 6-minute average.
		See A.I.2.b. The visible PE limitation specified by this rule is less stringent than the visible PE limitation established by OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(A)	See A.I.2.a. See A.I.2.a. See Part II - Specific Facility Terms and Conditions. The PE limitation specified by this rule is less stringent than the PE limitation established by OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-08 (B)	
	OAC rule 3745-17-07(B)	
	40 CFR Part 63, Subpart LLL	
	OAC rule 3745-17-11(B)	

- 2. **Additional Terms and Conditions**

- a. This emissions unit is not located in an "Appendix A" area as indicated in OAC rule 3745-17-08. Therefore, the emissions unit is not subject to the RACM requirements established in OAC rule 3745-17-08(B) and the visible emission limitations specified in OAC rule 3745-17-07(B).
- b. The permittee shall comply with the preventative maintenance and malfunction abatement plan as required in PTI #08-3072.
- c. The raw material unloading and storage shall be adequately enclosed such that the collection efficiency is sufficient to eliminate visible particulate emissions of fugitive dust at the points of capture. All captured PE shall be vented to a fabric filter system.

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II. Operational Restrictions

1. This facility shall not exceed an annual cement (finished product) production limit of 1,105,104 tons/rolling, 365-day period.

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain daily records of the following information:
 - a. the amount of cement (finished product) produced, in tons; and
 - b. the rolling, 365-day cement production summation of the daily cement production rates, in tons.
2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stacks serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the 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 eliminate the visible emissions.
3. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions at the points of capture associated with this emissions unit. The presence or absence of any visible fugitive 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 eliminate the visible emissions.

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IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 365-day cement production limitation of 1,105,104 tons. These deviation reports shall be submitted in accordance with paragraph A.1.c of the General Terms and Conditions of this permit.
2. The permittee shall submit annual reports that summarize the actual annual cement production rate for this emissions unit. The reports shall be submitted by January 31 of each year and shall cover the previous calendar year.
3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible fugitive particulate emissions were observed at the points of capture associated with this emissions unit and (b) describe any corrective actions taken to eliminate the visible fugitive particulate emissions. 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.
4. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stacks serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. 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.

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V. **Testing Requirements**

1. Compliance with the emission limitation(s) specified in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation-
0.020 gr/dscf of exhaust gases from the fabric filters, K362 and K371

Applicable Compliance Method-
If required, the permittee shall demonstrate compliance with the allowable PE limitation based on the results of emission testing conducted in accordance with USEPA Methods 1 - 5, 40 CFR, Part 60, Appendix A.
 - b. Emission Limitation-
0.7 lb/hr PE, including fugitive dust emissions

Applicable Compliance Method-
If required, the permittee shall demonstrate compliance with the allowable PE limitation based on the results of emission testing conducted in accordance with USEPA Methods 1 - 5, 40 CFR, Part 60, Appendix A.

Also, the hourly allowable PE limitation was established as follows:
 - i. for stack emissions - multiply the maximum grain loading of 0.020 gr PE/dscf by the maximum exhaust gases flow rate (3,500 dscf/minute) (from dust collectors K362 and K 371, combined), and by 60 min/hr, and then divide by 7000 gr/lb;
 - ii. for fugitive emissions - multiply the maximum hourly production rate (12 tons/hr) by the emission factor for fugitive PE of 0.0029 PE/ton (from AP-42 Table 11.19.2-2 (1/95)); and
 - iii. sum i + ii.
 - c. Emission Limitation-
16.8 lbs/day PE, including fugitive dust emissions

Applicable Compliance Method:
As long as compliance with the hourly PE limitation is maintained, compliance with the daily PE limitation shall be ensured (the daily limitation was determined by multiplying the hourly limitation by 24).
 - d. Emission Limitation-
3.1 tons/yr PE, including fugitive dust emissions

Applicable Compliance Method-
As long as compliance with the daily PE limitation is maintained, compliance with the annual PE limitation shall be ensured (the annual limitation was determined by multiplying the daily limitation by 365, and then dividing by 2000).
 - e. Emission Limitation-
Visible emissions of fugitive dust shall not exceed 5% opacity, as a 3-minute average

Applicable Compliance Method-
If required, compliance shall be determined by visible emission evaluations performed in accordance with U.S. EPA Reference Method 9 of 40 CFR Part 60, Appendix A.
 - f. Emission Limitation-
Visible emissions from the stack shall not exceed 5% opacity, as a 3-minute average

Applicable Compliance Method-
If required, compliance shall be determined by visible emission evaluations performed in accordance with U.S. EPA Reference Method 9 of 40 CFR Part 60, Appendix A.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0829700165 Emissions Unit ID: P911 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

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

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II. Operational Restrictions

1. None

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III. Monitoring and/or Record Keeping Requirements

1. None

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IV. Reporting Requirements

1. None

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V. Testing Requirements

1. None

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VI. Miscellaneous Requirements

1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0829700165 Emissions Unit ID: P912 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Clinker Dome Storage which includes F109 pan conveyor, F111 clinker dome, F107 fabric filter, F117 fabric filter, and F124A fabric filter	OAC rule 3745-31-05(A)(3) PTI #08-3072	0.020 gr particulate emissions (PE)/dscf of exhaust gases from the fabric filters, F107, F117, and F124 3.95 lbs/hr, 94.90 lbs/day, 17.32 tons/yr PE, including fugitive dust Visible emissions of fugitive dust shall not exceed 5% opacity, as a 3-minute average. Visible emissions from each dust collector stack shall not exceed 5% opacity, as a 6-minute average.
	OAC rule 3745-17-07(A)	See A.I.2.b. The visible PE limitation specified by this rule is less stringent than the visible PE limitation established by OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-08 (B)	See A.I.2.a.
	OAC rule 3745-17-07(B)	See A.I.2.a.
	40 CFR Part 63, Subpart LLL	See Part II - Specific Facility Terms and Conditions.
	OAC rule 3745-17-11(B)	The PE limitation specified by this rule is less stringent than the PE limitation established by OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

- a. This emissions unit is not located in an "Appendix A" area as indicated in OAC rule 3745-17-08. Therefore, the emissions unit is not subject to the RACM requirements established in OAC rule 3745-17-08(B) and the visible emission limitations specified in OAC rule 3745-17-07(B).
- b. The permittee shall comply with the preventative maintenance and malfunction abatement plan as required in PTI #08-3072.
- c. The clinker dome storage shall be adequately enclosed such that the collection efficiency is sufficient to eliminate visible particulate emissions of fugitive dust at the points of capture. All captured PE shall be vented to a fabric filter system.

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II. Operational Restrictions

1. This facility shall not exceed an annual cement (finished product) production limit of 1,105,104 tons/rolling, 365-day period.

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain daily records of the following information:
 - a. the amount of cement (finished product) produced, in tons; and
 - b. the rolling, 365-day cement production summation of the daily cement production rates, in tons.
2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stacks serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the 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 eliminate the visible emissions.

3. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions at the points of capture associated with this emissions unit. The presence or absence of any visible fugitive 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 eliminate the visible emissions.

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IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 365-day cement production limitation of 1,105,104 tons. These deviation reports shall be submitted in accordance with paragraph A.1.c of the General Terms and Conditions of this permit.
2. The permittee shall submit annual reports that summarize the actual annual cement production rate for this emissions unit. The reports shall be submitted by January 31 of each year and shall cover the previous calendar year.
3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible fugitive particulate emissions were observed at the points of capture associated with this emissions unit and (b) describe any corrective actions taken to eliminate the visible fugitive particulate emissions. 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.
4. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stacks serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. 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.

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V. Testing Requirements

1. Compliance with the emission limitation(s) specified in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation-
0.020 gr particulate emissions (PE)/dscf of exhaust gases from the fabric filters, F107, F117 and F124

Applicable Compliance Method-
The permittee shall demonstrate compliance with the allowable PE limitation based on the results of emission testing conducted in accordance with USEPA Methods 1 - 5, 40 CFR, Part 60, Appendix A.
 - b. Emission Limitation-
3.95 lbs/hr, including fugitive dust emissions

Applicable Compliance Method-
The permittee shall demonstrate compliance with the allowable PE limitation based on the results of emission testing conducted in accordance with USEPA Methods 1 - 5, 40 CFR, Part 60, Appendix A.

Also, the hourly allowable PE limitation was established as follows:
 - i. for stack emissions - multiply the maximum grain loading of 0.020 gr PE/dscf by the maximum exhaust gases flow rate (11,200 dscf/minute) (from dust collectors F107, F117 and F124A, combined), and by 60 minutes/hour, and then divide by 7,000 grains/pound;
 - ii. for fugitive emissions -
 - (a) multiply the maximum hourly production rate (247 tons/hr) (for clinker transferred to the dome) by the emission factor for fugitive PE of 0.15 lb PE/ton (from an engineering study completed by the company) and multiply by a control factor of (1 - 0.95);
 - (b) multiply the maximum hourly production rate (247 tons/hr) (for clinker transferred out of the dome) by the emission factor for fugitive PE of 0.15 lb PE/ton (from an engineering study completed by the company), and multiply by a control factor of (1 - 0.995);**
 - (c) sum (a) + (b); and
 - iii. sum i + ii.
- * a capture efficiency of 95% is assumed for clinker transferred into the dome

** a capture and control efficiency of 99.5% is assumed for clinker transferred out of the dome

- c. Emission Limitation-
94.90 lbs/day PE, including fugitive dust emissions
- Applicable Compliance Method:
As long as compliance with the hourly PE limitation is maintained, compliance with the daily PE limitation shall be ensured (the daily limitation was determined by multiplying the hourly limitation by 24).
- d. Emission Limitation-
17.32 tons/yr PE, including fugitive dust
- Applicable Compliance Method-
As long as compliance with the daily PE limitation is maintained, compliance with the annual PE limitation shall be ensured (the annual limitation was determined by multiplying the daily limitation by 365, and then dividing by 2000).
- e. Emission Limitation-
Visible emissions of fugitive dust shall not exceed 5% opacity, as a 3-minute average
- Applicable Compliance Method-
If required, compliance shall be determined by visible emission evaluations performed in accordance with U.S. EPA Reference Method 9 of 40 CFR Part 60, Appendix A.
- f. Emission Limitation-
Visible emissions from the stack shall not exceed 5% opacity, as a 3-minute average
- Applicable Compliance Method-
If required, compliance shall be determined by visible emission evaluations performed in accordance with U.S. EPA Reference 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:
- The emission testing shall be conducted within 6 months after permit issuance.
 - The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for PE and the allowable opacity limitation.
 - The test methods which shall be employed to demonstrate compliance with the allowable mass emission rate for PE and the allowable opacity limitation are:
 - for PE: Methods 1 - 5 of 40 CFR, Part 60, Appendix A; and
 - for opacity: Method 9 of 40 CFR, part 60, Appendix A.
 - The test(s) shall be conducted while the emissions unit is operating at its maximum capacity, unless otherwise approved by the appropriate Ohio EPA District Office or local air agency.
3. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the to the appropriate Ohio EPA District Office or local air agency's refusal to accept the results of the emission test (s).
- Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.
- A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, when warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

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VI. **Miscellaneous Requirements**

- None

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Facility ID: 0829700165 Emissions Unit ID: P912 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

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

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II. Operational Restrictions

- 1. None

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III. Monitoring and/or Record Keeping Requirements

- 1. None

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IV. Reporting Requirements

- 1. None

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V. Testing Requirements

- 1. None

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VI. Miscellaneous Requirements

- 1. None

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Facility ID: 0829700165 Emissions Unit ID: P913 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Clinker Bin Storage which includes K301 feed bin, K302 feed bin, K121 belt conveyor, K112 fabric filter, K107 fabric filter, K109 fabric filter, F119A belt conveyor, K110 bucket elevator, and F133 fabric filter	OAC rule 3745-31-05(A)(3) PTI #08-3072	0.020 gr particulate emissions (PE)/dsef of exhaust gases from the fabric filters 3.0 lbs/hr, 72.0 lbs/day, 13.14 tons/yr PE, including fugitive dust Visible emissions of fugitive dust shall not exceed 5% opacity, as a 3-minute average. Visible emissions from each dust collector stack shall not exceed 5% opacity, as a 6-minute average.
	OAC rule 3745-17-07(A)	See A.I.2.b. The visible PE limitation specified by this rule is less stringent than the visible PE limitation established by OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-08 (B)	See A.I.2.a.
	OAC rule 3745-17-07(B)	See A.I.2.a.
	40 CFR Part 63, Subpart LLL	See Part II - Specific Facility Terms and Conditions.
	OAC rule 3745-17-11(B)	The PE limitation specified by this rule is less stringent than the PE limitation established by OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

- a. This emissions unit is not located in an "Appendix A" area as indicated in OAC rule 3745-17-08. Therefore, the emissions unit is not subject to the RACM requirements established in OAC rule 3745-17-08(B) and the visible emission limitations specified in OAC rule 3745-17-07(B).
- b. The permittee shall comply with the preventative maintenance and malfunction abatement plan as required in PTI #08-3072.
- c. The clinker bin storage shall be adequately enclosed such that the collection efficiency is sufficient to eliminate visible particulate emissions of fugitive dust at the points of capture. All captured PE shall be vented to a fabric filter system.

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II. Operational Restrictions

1. This facility shall not exceed an annual cement (finished product) production limit of 1,105,104 tons/rolling, 365-day period.

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THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain daily records of the following information:
 - a. the amount of cement (finished product) produced, in tons; and
 - b. the rolling, 365-day cement production summation of the daily cement production rates, in tons.
2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stacks serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the 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 eliminate the visible emissions.

3. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions at the points of capture associated with this emissions unit. The presence or absence of any visible fugitive 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 eliminate the visible emissions.

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IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 365-day cement production limitation of 1,105,104 tons. These deviation reports shall be submitted in accordance with paragraph A.1.c of the General Terms and Conditions of this permit.
2. The permittee shall submit annual reports that summarize the actual annual cement production rate for this emissions unit. The reports shall be submitted by January 31 of each year and shall cover the previous calendar year.
3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible fugitive particulate emissions were observed at the points of capture associated with this emissions unit and (b) describe any corrective actions taken to eliminate the visible fugitive particulate emissions. 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.
4. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stacks serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. 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.

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V. Testing Requirements

1. Compliance with the emission limitation(s) specified in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation-
0.020 gr PE/dscf of exhaust gases from the fabric filters

Applicable Compliance Method-
The permittee shall demonstrate compliance with the allowable PE limitation based on the results of emission testing conducted in accordance with USEPA Methods 1 - 5, 40 CFR, Part 60, Appendix A.
 - b. Emission Limitation-
3.0 lbs/hr, including fugitive dust emissions

Applicable Compliance Method-
The permittee shall demonstrate compliance with the allowable PE limitation based on the results of emission testing conducted in accordance with USEPA Methods 1 - 5, 40 CFR, Part 60, Appendix A.

Also, the hourly allowable PE limitation was established as follows:
 - i. for stack emissions - multiply the maximum grain loading of 0.020 gr PE/dscf by the maximum exhaust gases flow rate (6,400 dscf/minute) (from dust collectors K107, K109, K112 and F133, combined), and by 60 minutes/hour, and then divide by 7,000 grains/pound;
 - ii. for fugitive emissions -
 - (a) multiply the maximum hourly through put (12 tons/hr) (for rock and gypsum transferred to the bucket elevator) by the emission factor for fugitive PE of 0.0029 lb/ton (from AP-42 Table 11.19.2-2 (1/95)), and by a control factor of (1 - 0.90);*
 - (b) multiply the maximum hourly through put (12 tons/hr) (for rock and gypsum transferred to the clinker bins) by the emission factor for fugitive PE of 0.0029 lb/ton (from AP-42 Table 11.19.2-2 (1/95)), and multiply by a control factor of (1 - 0.95);**
 - (c) multiply the maximum hourly through put (247 tons/hr) (for clinker transferred to the bins) by the emission factor for fugitive PE of 0.15 lb PE/ton (from an engineering study completed by the company), and multiply by a control factor of (1 - 0.95);***
 - (d) sum (a) + (b) + (c); and

- iii. sum i + ii.
- * a capture efficiency of 90% is assumed for rock and gypsum transferred to the bucket elevator
 - ** a capture efficiency of 95% is assumed for rock and gypsum transferred to the clinker bins
 - *** a capture efficiency of 95% is assumed for clinker transferred to the bins
- c. Emission Limitation-
72.0 lbs/day PE, including fugitive dust emissions
- Applicable Compliance Method:
As long as compliance with the hourly PE limitation is maintained, compliance with the daily PE limitation shall be ensured (the daily limitation was determined by multiplying the hourly limitation by 24).
- d. Emission Limitation-
13.14 tons/yr PE, including fugitive dust
- Applicable Compliance Method-
As long as compliance with the daily PE limitation is maintained, compliance with the annual PE limitation shall be ensured (the annual limitation was determined by multiplying the daily limitation by 365, and then dividing by 2000).
- e. Emission Limitation-
Visible emissions of fugitive dust shall not exceed 5% opacity, as a 3-minute average
- Applicable Compliance Method-
If required, compliance shall be determined by visible emission evaluations performed in accordance with U.S. EPA Reference Method 9 of 40 CFR Part 60, Appendix A.
- f. Emission Limitation-
Visible emissions from the stack shall not exceed 5% opacity, as a 3-minute average
- Applicable Compliance Method-
If required, compliance shall be determined by visible emission evaluations performed in accordance with U.S. EPA Reference 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 permit issuance.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for PE and the allowable opacity limitation.
 - c. The test methods which shall be employed to demonstrate compliance with the allowable mass emission rate for PE and the allowable opacity limitation are:
 - i. for PE: Methods 1 - 5 of 40 CFR, Part 60, Appendix A; and
 - ii. for opacity: Method 9 of 40 CFR, part 60, Appendix A.
 - d. The test(s) shall be conducted while the emissions unit is operating at its maximum capacity, unless otherwise approved by the appropriate Ohio EPA District Office or local air agency.
3. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the to the appropriate Ohio EPA District Office or local air agency's refusal to accept the results of the emission test (s).
- Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.
- A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, when warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0829700165 Emissions Unit ID: P913 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

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

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II. Operational Restrictions

1. None

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III. Monitoring and/or Record Keeping Requirements

1. None

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IV. Reporting Requirements

1. None

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V. Testing Requirements

1. None

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VI. Miscellaneous Requirements

1. None

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Facility ID: 0829700165 Emissions Unit ID: P914 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Feed Bin Extraction, K331 belt conveyor, K332 belt conveyor, K333 belt conveyor, K334 belt conveyor, K411 fabric filter, K412 fabric filter, and K413 fabric filter	OAC rule 3745-31-05(A)(3) PTI #08-3072	0.020 gr particulate emissions (PE)/dscf of exhaust gases from the fabric filters
		3.16 lbs/hr, 75.9 lbs/day, 13.9 tons/year PE, including fugitive dust
		Visible emissions of fugitive dust shall not exceed 5% opacity, as a 3-minute average.
		Visible emissions from each dust collector stack shall not exceed 5% opacity, as a 6-minute average.
		See A.I.2.b. The visible PE limitation specified by this rule is less stringent than the visible PE limitation established by OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(A)	See A.I.2.a. See A.I.2.a.
	OAC rule 3745-17-08 (B)	See A.I.2.a.
	OAC rule 3745-17-07(B)	See A.I.2.a.
	40 CFR Part 63, Subpart LLL	See Part II - Specific Facility Terms and Conditions.
	OAC rule 3745-17-11(B)	The PE limitation specified by this rule is less stringent than the PE limitation established by OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

- a. This emissions unit is not located in an "Appendix A" area as indicated in OAC rule 3745-17-08. Therefore, the emissions unit is not subject to the RACM requirements established in OAC rule 3745-17-08(B) and the visible emission limitations specified in OAC rule 3745-17-07(B).
- b. The permittee shall comply with the preventative maintenance and malfunction abatement plan as required in PTI #08-3072.
- c. The feed bin extraction (including all the conveyors) shall be adequately enclosed such that the collection efficiency is sufficient to eliminate visible particulate emissions of fugitive dust at the points of capture. All captured PE shall be vented to a fabric filter system.

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II. Operational Restrictions

1. This facility shall not exceed an annual cement (finished product) production limit of 1,105,104 tons/rolling, 365-day period.

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain daily records of the following information:
 - a. the amount of cement (finished product) produced, in tons; and
 - b. the rolling, 365-day cement production summation of the daily cement production rates, in tons.
2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stacks serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the 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 eliminate the visible emissions.
3. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions at the points of capture associated with this emissions unit. The presence or absence of any visible fugitive 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 eliminate the visible emissions.

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IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 365-day cement production limitation of 1,105,104 tons. These deviation reports shall be submitted in accordance with paragraph A.1.c of the General Terms and Conditions of this permit.
2. The permittee shall submit annual reports that summarize the actual annual cement production rate for this emissions unit. The reports shall be submitted by January 31 of each year and shall cover the previous calendar year.
3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible fugitive particulate emissions were observed at the points of capture associated with this emissions unit and (b) describe any corrective actions taken to eliminate the visible fugitive particulate emissions. 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.
4. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stacks serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. 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.

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V. Testing Requirements

1. Compliance with the emission limitation(s) specified in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation-
0.020 gr PE/dscf of exhaust gases from the fabric filters

Applicable Compliance Method-
If required, The permittee shall demonstrate compliance with the allowable PE limitation based on the results of emission testing conducted in accordance with USEPA Methods 1 - 5, 40 CFR, Part 60, Appendix A.
 - b. Emission Limitation-
3.16 lbs/hr, including fugitive dust emissions

Applicable Compliance Method-
If required, The permittee shall demonstrate compliance with the allowable PE limitation based on the results of emission testing conducted in accordance with USEPA Methods 1 - 5, 40 CFR, Part 60, Appendix A.

Also, the hourly allowable PE limitation was established as follows:
 - i. for stack emissions - multiply the maximum grain loading of 0.020 gr PE/dscf by the maximum exhaust gases flow rate (7,600 dscf/minute) (from dust collectors K411, K412 and K113, combined), and by 60 minutes/hour, and then divide by 7,000 grains/pound;
 - ii. for fugitive emissions -
 - (a) multiply the maximum hourly through put (24 tons/hr) (for rock and gypsum handled) by the emission factor for fugitive PE of 0.0029 lb/ton (from AP-42, Table 11.19-2-2), and by a control factor of (1 - 0.95);*
 - (b) multiply the maximum hourly through put (247 tons/hr) (for clinker handled) by the emission factor

for fugitive PE of 0.15 lb PE/ton (from an engineering study completed by the company), and multiply by a control factor of (1 - 0.95);**

(c) sum (a) + (b); and

iii. sum i + ii.

* a capture efficiency of 95% is assumed for rock and gypsum handled

** a capture efficiency of 95% is assumed for clinker handled

c. Emission Limitation-
75.9 lbs/day PE, including fugitive dust emissions

Applicable Compliance Method:

As long as compliance with the hourly PE limitation is maintained, compliance with the daily PE limitation shall be ensured (the daily limitation was determined by multiplying the hourly limitation by 24).

d. Emission Limitation-
13.9 TPY PE, including fugitive dust

Applicable Compliance Method-

As long as compliance with the daily PE limitation is maintained, compliance with the annual PE limitation shall be ensured (the annual limitation was determined by multiplying the daily limitation by 365, and then dividing by 2000).

e. Emission Limitation-
Visible emissions of fugitive dust shall not exceed 5% opacity, as a 3-minute average

Applicable Compliance Method-

If required, compliance shall be determined by visible emission evaluations performed in accordance with U.S. EPA Reference Method 9 of 40 CFR Part 60, Appendix A.

f. Emission Limitation-
Visible emissions from the stack shall not exceed 5% opacity, as a 3-minute average

Applicable Compliance Method-

If required, compliance shall be determined by visible emission evaluations performed in accordance with U.S. EPA Reference Method 9 of 40 CFR Part 60, Appendix A.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0829700165 Emissions Unit ID: P914 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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

1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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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: 0829700165 Emissions Unit ID: P915 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Lime Storage and transport which includes, K305 Lime storage silo, K315 fabric filter	OAC rule 3745-31-05(A)(3) PTI #08-3072	0.020 gr particulate emissions (PE)/dscf of exhaust gases from fabric filter 0.26 lb/hr, 6.19 lbs/day, 1.13 tons/yr PE, including fugitive dust Visible emissions of fugitive dust shall not exceed 5% opacity, as a 3-minute average. Visible emissions from each dust collector stack shall not exceed 5% opacity, as a 6-minute average.
	OAC rule 3745-17-07(A)	See A.I.2.b. The visible PE limitation specified by this rule is less

OAC rule 3745-17-08 (B)
 OAC rule 3745-17-07(B)
 40 CFR Part 63, Subpart LLL
 OAC rule 3745-17-11(B)

stringent than the visible PE limitation established by OAC rule 3745-31-05(A)(3).
 See A.I.2.a.
 See A.I.2.a.
 See Part II - Specific Facility Terms and Conditions.
 The PE limitation specified by this rule is less stringent than the PE limitation established by OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

- a. This emissions unit is not located in an "Appendix A" area as indicated in OAC rule 3745-17-08. Therefore, the emissions unit is not subject to the RACM requirements established in OAC rule 3745-17-08(B) and the visible emission limitations specified in OAC rule 3745-17-07(B).
- b. The permittee shall comply with the preventative maintenance and malfunction abatement plan as required in PTI #08-3072.
- c. The emissions unit shall be adequately enclosed such that the collection efficiency is sufficient to eliminate visible particulate emissions of fugitive dust at the points of capture. All captured PE shall be vented to a fabric filter system.

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II. Operational Restrictions

1. This facility shall not exceed an annual cement (finished product) production limit of 1,105,104 tons/rolling, 365-day period.

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain daily records of the following information:
 - a. the amount of cement (finished product) produced, in tons; and
 - b. the rolling, 365-day cement production summation of the daily cement production rates, in tons.
2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stacks serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the 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 eliminate the visible emissions.
3. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions at the points of capture associated with this emissions unit. The presence or absence of any visible fugitive 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 eliminate the visible emissions.

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IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 365-day cement production limitation of 1,105,104 tons. These deviation reports shall be submitted in accordance with paragraph A.1.c of the General Terms and Conditions of this permit.
2. The permittee shall submit annual reports that summarize the actual annual cement production rate for this emissions unit. The reports shall be submitted by January 31 of each year and shall cover the previous

calendar year.

3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible fugitive particulate emissions were observed at the points of capture associated with this emissions unit and (b) describe any corrective actions taken to eliminate the visible fugitive particulate emissions. 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.
4. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stacks serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. 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.

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V. Testing Requirements

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

- a. Emission Limitation-
0.020 gr PE/dscf of exhaust gases from the dust collector

Applicable Compliance Method-

If required, the permittee shall demonstrate compliance with the allowable PE limitation based on the results of emission testing conducted in accordance with USEPA Methods 1 - 5, 40 CFR, Part 60, Appendix A.

- b. Emission Limitation-
0.26 lb/hr PE including fugitive dust emissions

Applicable Compliance Method-

If required, the permittee shall demonstrate compliance with the allowable PE limitation based on the results of emission testing conducted in accordance with USEPA Methods 1 - 5, 40 CFR, Part 60, Appendix A.

i. for stack emissions -

Also, the hourly allowable PE limitation was established by multiplying the maximum grain loading of 0.020 gr PE/dscf by the maximum exhaust gases flow rate (1500 dscf/minute) (from dust collector K315), and by 60 minutes/hour, and then dividing by 7,000 grains/pound.

ii. for fugitive emissions -

- (a) multiply the maximum hourly transfer rate (for lime transferred to the silo) by the emission factor for fugitive PE of 0.029 lb PE/ton (from AP-42, Table 11.19-2-2 (1/95)) and multiply by a control factor of (1 - 0.997);

iii. sum i + ii.

* a capture and control efficiency of 99.7% is assumed for lime transferred into the dome

- c. Emission Limitation-
6.19 lbs/day PE including fugitive dust emissions

Applicable Compliance Method:

As long as compliance with the hourly PE limitation is maintained, compliance with the daily PE limitation shall be ensured (the daily limitation was determined by multiplying the hourly limitation by 24).

- d. Emission Limitation-
1.13 tons/yr PE including fugitive dust emissions

Applicable Compliance Method-

As long as compliance with the daily PE limitation is maintained, compliance with the annual PE limitation shall be ensured (the annual limitation was determined by multiplying the daily limitation by 365, and then dividing by 2000).

- e. Emission Limitation-
Visible emissions of fugitive dust shall not exceed 5% opacity, as a 3-minute average

Applicable Compliance Method-

If required, compliance shall be determined by visible emission evaluations performed in accordance with U.S. EPA Reference Method 9 of 40 CFR Part 60, Appendix A.

- f. Emission Limitation-
Visible emissions from the stack shall not exceed 5% opacity, as a 3-minute average

Applicable Compliance Method-

If required, compliance shall be determined by visible emission evaluations performed in accordance with U.S. EPA Reference Method 9 of 40 CFR Part 60, Appendix A.

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0829700165 Emissions Unit ID: P915 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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

- 1. None.

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

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

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

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II. **Operational Restrictions**

- 1. None

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

- 1. None

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IV. **Reporting Requirements**

- 1. None

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V. **Testing Requirements**

- 1. None

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VI. **Miscellaneous Requirements**

- 1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0829700165 Emissions Unit ID: P916 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Finish Mill Grinding; Ball Mill and Separator which includes K501 ball mill, K521 airslide conveyor, K522 mill bucket elevator, K525 airslide conveyor, K531 separator, K535 airslide conveyor, K516 screw conveyor, K560 airslide conveyor, K551 airslide conveyor, K552 airslide conveyor, K511 mill fabric filter, K541 separator fabric filter I, K542 separator fabric filter II, K571 fringe bin, K577 screw conveyor, K581 bulk loadout spout, K580 airslide conveyor, K576 fabric filter, K523 fabric filter	OAC rule 3745-31-05(A)(3) PTI #08-3072	0.020 gr particulate emissions (PE)/dscf of exhaust gases from the fabric filters, K511, K541, K542, K576, and K523
		26.2 lbs/hr, 629.0 lbs/day, 114.8 tons/yr PE, including fugitive dust
		Visible emissions from the stack shall not exceed 10% opacity, as a 3-minute average.
		See A.I.2.a.
	OAC rule 3745-17-07(A)	The visible PE limitation specified by this rule is less stringent than the visible PE limitation established by OAC rule 3745-31-05(A)(3).
	40 CFR Part 63, Subpart LLL	The visible emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-11(B)	See Part II - Specific Facility Terms and Conditions. The PE limitation specified by this rule is less stringent than the PE limitation established by OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

- a. The permittee shall comply with the preventative maintenance and malfunction abatement plan as required in PTI #08-3072.

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II. Operational Restrictions

1. This facility shall not exceed an annual cement (finished product) production limit of 1,105,104 tons/rolling, 365-day period.

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain daily records of the following information:
 - a. the amount of cement (finished product) produced, in tons; and
 - b. the rolling, 365-day cement production summation of the daily cement production rates, in tons.
2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stacks serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

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

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IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 365-day cement production limitation of 1,105,104 tons. These deviation reports shall be submitted in accordance with paragraph A.1.c of the General Terms and Conditions of this permit.
2. The permittee shall submit annual reports that summarize the actual annual cement production rate for this emissions unit. The reports shall be submitted by January 31 of each year and shall cover the previous calendar year.
3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible fugitive particulate emissions were observed at the points of capture associated with this emissions unit and (b) describe any corrective actions taken to eliminate the visible fugitive particulate emissions. 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.

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V. Testing Requirements

1. Compliance with the emission limitation(s) specified in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation-
0.020 gr PE/dscf of exhaust gases from the fabric filters

Applicable Compliance Method-
The permittee shall demonstrate compliance with the allowable PE limitation based on the results of emission testing conducted in accordance with USEPA Methods 1 - 5, 40 CFR, Part 60, Appendix A.
 - b. Emission Limitation-
26.2 lbs/hr PE including fugitive dust emissions

Applicable Compliance Method-
The permittee shall demonstrate compliance with the allowable PE limitation based on the results of emission testing conducted in accordance with USEPA Methods 1 - 5, 40 CFR, Part 60, Appendix A.

Also, the hourly allowable PE limitation was established as follows:
 - i. for stack emissions - multiply the maximum grain loading of 0.020 gr PE/dscf by the maximum exhaust gases flow rate (151,700 dscf/minute) (from fabric filters K511, K541, K542, K576 and K523, combined), and by 60 minutes/hour, and then divide by 7,000 grains/pound.
 - ii. for fugitive emissions -
 - (a) multiply the maximum hourly through put for the clinker transfer points associated with this emissions unit by the emission factor for fugitive PE of 0.15 lb/ton (from an engineering study completed by the company), and by a control factor of (1 - 0.997);*
 - (b) multiply the maximum hourly through put for the lime, rock and gypsum transfer points associated with this emissions by the emission factor for fugitive PE of 0.0029 lb/ton (from AP-42, Table 11.19.2-2 (1/95)), and by a control factor of (1 - 0.997);*
 - (c) multiply the maximum hourly through put for the cement transfer points associated with this emissions unit by the emission factor for fugitive PE of 0.00099 lb/ton (from AP-42, Table 11.12.2 (1/95)), and by a control factor of (1 - 0.95);**
 - (d) sum (a) + (b)+(c); and
 - iii. sum i + ii.
- * a capture and control efficiency of 99.7% is assumed for all clinker, lime, rock and gypsum handled
** a control efficiency of 95% is assumed for cement handled
- c. Emission Limitation-
629.0 lbs/day PE including fugitive dust emissions

Applicable Compliance Method:

As long as compliance with the hourly PE limitation is maintained, compliance with the daily PE limitation shall be ensured (the daily limitation was determined by multiplying the hourly limitation by 24).

- d. Emission Limitation-
114.8 tons/yr PE including fugitive dust emissions
- Applicable Compliance Method-
As long as compliance with the daily PE limitation is maintained, compliance with the annual PE limitation shall be ensured (the annual limitation was determined by multiplying the daily limitation by 365, and then dividing by 2000).
- e. Emission Limitation-
Visible emissions from the stack shall not exceed 10% opacity, as a 3-minute average
- Applicable Compliance Method-
If required, compliance shall be determined by visible emission evaluations performed in accordance with U.S. EPA Reference 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 permit issuance.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for PE and the allowable opacity limitation.
 - c. The test methods which shall be employed to demonstrate compliance with the allowable mass emission rate for PE and the allowable opacity limitation are:
 - i. for PE: Methods 1 - 5 of 40 CFR, Part 60, Appendix A; and
 - ii. for opacity: Method 9 of 40 CFR, part 60, Appendix A.
 - d. The test(s) shall be conducted while the emissions unit is operating at its maximum capacity, unless otherwise approved by the appropriate Ohio EPA District Office or local air agency.
3. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the to the appropriate Ohio EPA District Office or local air agency's refusal to accept the results of the emission test (s).
- Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.
- A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, when warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0829700165 Emissions Unit ID: P916 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

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

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II. Operational Restrictions

1. None

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III. Monitoring and/or Record Keeping Requirements

1. None

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IV. Reporting Requirements

1. None

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V. Testing Requirements

1. None

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VI. Miscellaneous Requirements

1. None

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Facility ID: 0829700165 Emissions Unit ID: P917 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Cement Transport which includes K565 airslide conveyor, L201 bucket elevator,	OAC rule 3745-31-05(A)(3) PTI #08-3072	0.020 grain particulate emissions (PE)/dscf of exhaust gases from the fabric filters

L215 airslide conveyor, L205 fabric filter,
and L206 fabric filter

1.0 lbs/hr, 24.0 lbs/day, 4.38 tons/yr PE, including
fugitive dust

Visible emissions of fugitive dust shall not exceed 5%
opacity, as a 3-minute average.

Visible emissions from each dust collector stack shall
not exceed 5% opacity, as a 6-minute average.

See A.I.2.b.

OAC rule 3745-17-07(A)

The visible PE limitation specified by this rule is less
stringent than the visible PE limitation established by
OAC rule 3745-31-05(A)(3).

OAC rule 3745-17-08 (B)

See A.I.2.a.

OAC rule 3745-17-07(B)

See A.I.2.a.

40 CFR Part 63, Subpart LLL

The visible emission limitation specified by this rule is
less stringent than the emission limitation established
pursuant to OAC rule 3745-31-05(A)(3).

See Part II - Specific Facility Terms and Conditions.

OAC rule 3745-17-11(B)

The PE limitation specified by this rule is less stringent
than the PE limitation established by OAC rule 3745-
31-05(A)(3).

2. Additional Terms and Conditions

- a. This emissions unit is not located in an "Appendix A" area as indicated in OAC rule 3745-17-08. Therefore, the emissions unit is not subject to the RACM requirements established in OAC rule 3745-17-08(B) and the visible emission limitations specified in OAC rule 3745-17-07(B).
- b. The permittee shall comply with the preventative maintenance and malfunction abatement plan as required in PTI #08-3072.
- c. The emissions unit shall be adequately enclosed such that the collection efficiency is sufficient to eliminate visible particulate emissions of fugitive dust at the points of capture. All captured PE shall be vented to a fabric filter system.

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II. Operational Restrictions

- 1. This facility shall not exceed an annual cement (finished product) production limit of 1,105,104 tons/rolling, 365-day period.

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III. Monitoring and/or Record Keeping Requirements

- 1. The permittee shall maintain daily records of the following information:
 - a. the amount of cement (finished product) produced, in tons; and
 - b. the rolling, 365-day cement production summation of the daily cement production rates, in tons.
- 2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stacks serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the 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 eliminate the visible emissions.
- 3. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions at the points of capture associated with this emissions unit. The presence or absence of any visible fugitive 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 eliminate the visible emissions.

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IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 365-day cement production limitation of 1,105,104 tons. These deviation reports shall be submitted in accordance with paragraph A.1.c of the General Terms and Conditions of this permit.
2. The permittee shall submit annual reports that summarize the actual annual cement production rate for this emissions unit. The reports shall be submitted by January 31 of each year and shall cover the previous calendar year.
3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible fugitive particulate emissions were observed at the points of capture associated with this emissions unit and (b) describe any corrective actions taken to eliminate the visible fugitive particulate emissions. 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.
4. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stacks serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. 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.

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V. Testing Requirements

1. Compliance with the emission limitation(s) specified in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation-
0.020 grain PE/dscf of exhaust gases from the fabric filters

Applicable Compliance Method-
If required, the permittee shall demonstrate compliance with the allowable PE limitation based on the results of emission testing conducted in accordance with USEPA Methods 1 - 5, 40 CFR, Part 60, Appendix A.
 - b. Emission Limitation-
1.0 lbs/hr, including fugitive dust emissions

Applicable Compliance Method-
If required, the permittee shall demonstrate compliance with the allowable PE limitation based on the results of emission testing conducted in accordance with USEPA Methods 1 - 5, 40 CFR, Part 60, Appendix A and the fugitive emissions calculated in accordance with the equations below.

Also, the hourly allowable PE limitation was established as follows:
 - i. for stack emissions - multiply the maximum grain loading of 0.020 gr PE/dscf by the maximum exhaust gases flow rate (3,300 dscf/minute) (from dust collectors K205 and L206, combined), and by 60 minutes/hour, and then divide by 7000 grains/pound;
 - ii. multiply the maximum hourly throughput (391tons per hour) for the cement transfer points associated with this emissions by the emission factor for fugitive PE of 0.00099 lb/ton (from AP-42, Table 11.12-2 (10/01)) and;
 - iii. sum i + ii.
 - c. Emission Limitation-
24.0 lbs/day PE, including fugitive dust emissions

Applicable Compliance Method:
As long as compliance with the hourly PE limitation is maintained, compliance with the daily PE limitation shall be ensured (the daily limitation was determined by multiplying the hourly limitation by 24).
 - d. Emission Limitation-
4.38 tons/yr PE, including fugitive dust emissions

Applicable Compliance Method-
As long as compliance with the daily PE limitation is maintained, compliance with the annual PE limitation shall be ensured (the annual limitation was determined by multiplying the daily limitation by 365, and then dividing by 2000).

- e. Emission Limitation-
Visible emissions of fugitive dust shall not exceed 5% opacity, as a 3-minute average

Applicable Compliance Method-
If required, compliance shall be determined by visible emission evaluations performed in accordance with U.S. EPA Reference Method 9 of 40 CFR Part 60, Appendix A.
- f. Emission Limitation-
Visible emissions from the stack shall not exceed 5% opacity, as a 3-minute average

Applicable Compliance Method-
If required, compliance shall be determined by visible emission evaluations performed in accordance with U.S. EPA Reference Method 9 of 40 CFR Part 60, Appendix A.

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0829700165 Emissions Unit ID: P917 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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

- 1. None.

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

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

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

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II. **Operational Restrictions**

- 1. None

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

- 1. None

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IV. **Reporting Requirements**

- 1. None

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V. **Testing Requirements**

- 1. None

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0829700165 Issuance type: Title V Proposed Permit

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Facility ID: 0829700165 Emissions Unit ID: P918 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Cement Storage Silos which include cement silos (L301 to L308), airslide conveyors (L221A to L228A) and the fabric filters (L211)	OAC rule 3745-31-05(A)(3) PTI #08-3072	0.020 grain particulate emissions (PE)/dscf of exhaust gases from the fabric filters 1.60 lbs/hr, 38.4 lbs/day, 7.0 tons/yr PE, including fugitive dust Visible emissions of fugitive dust shall not exceed 5% opacity, as a 3-minute average. Visible emissions from each fabric filter stack shall not exceed 5% opacity, as a 6-minute average.
	OAC rule 3745-17-07(A)	See A.I.2.b. The visible PE limitation specified by this rule is less stringent than the visible PE limitation established by OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-08 (B) OAC rule 3745-17-07(B) 40 CFR Part 63, Subpart LLL	See A.I.2.a. See A.I.2.a. The visible emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-11(B)	See Part II - Specific Facility Terms and Conditions. The PE limitation specified by this rule is less stringent than the PE limitation established by OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

- a. This emissions unit is not located in an "Appendix A" area as indicated in OAC rule 3745-17-08. Therefore, the emissions unit is not subject to the RACM requirements established in OAC rule 3745-17-08(B) and the visible emission limitations specified in OAC rule 3745-17-07(B).
- b. The permittee shall comply with the preventative maintenance and malfunction abatement plan as required in PTI #08-3072.
- c. The emissions unit shall be adequately enclosed such that the collection efficiency is sufficient to eliminate visible particulate emissions of fugitive dust at the points of capture. All captured PE shall be vented to a fabric filter system.

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II. Operational Restrictions

1. This facility shall not exceed an annual cement (finished product) production limit of 1,105,104 tons/rolling, 365-day period.

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain daily records of the following information:
 - a. the amount of cement (finished product) produced, in tons; and
 - b. the rolling, 365-day cement production summation of the daily cement production rates, in tons.
2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stacks serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the 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 eliminate the visible emissions.
3. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions at the points of capture associated with this emissions unit. The presence or absence of any visible fugitive 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 eliminate the visible emissions.

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IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 365-day cement production limitation of 1,105,104 tons. These deviation reports shall be submitted in accordance with paragraph A.1.c of the General Terms and Conditions of this permit.
2. The permittee shall submit annual reports that summarize the actual annual cement production rate for this emissions unit. The reports shall be submitted by January 31 of each year and shall cover the previous calendar year.
3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible fugitive particulate emissions were observed at the points of capture associated with this emissions unit and (b) describe any corrective actions taken to eliminate the visible fugitive particulate emissions. 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.
4. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stacks serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. 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.

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V. Testing Requirements

1. Compliance with the emission limitation(s) specified in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation-
0.020 grain PE/dscf of exhaust gases from the fabric filters

- Applicable Compliance Method-
The permittee shall demonstrate compliance with the allowable PE limitation based on the results of emission testing conducted in accordance with USEPA Methods 1 - 5, 40 CFR, Part 60, Appendix A.
- b. Emission Limitation-
1.6 lbs/hr PE, including fugitive dust emissions
- Applicable Compliance Method-
The permittee shall demonstrate compliance with the allowable PE limitation based on the results of emission testing conducted in accordance with USEPA Methods 1 - 5, 40 CFR, Part 60, Appendix A.
- Also, the hourly allowable PE limitation was established as follows:
- i. for stack emissions - multiply the maximum grain loading of 0.020 gr PE/dscf by the maximum exhaust gases flow rate (8,250 dscf/minute) (from dust collector L211), and by 60 minutes/hour, and then divide by 7000 grains/pound;
 - ii. for fugitive emissions - multiply the maximum hourly throughput (126 tons per hour) for the cement transfer points associated with this emissions unit by the emission factor for fugitive PE of 0.00099 lb/ton (from AP-42, Table 11.12-2 (10/01)) and;
 - iii. sum i + ii.
- c. Emission Limitation-
38.4 lbs/day PE, including fugitive dust emissions
- Applicable Compliance Method:
As long as compliance with the hourly PE limitation is maintained, compliance with the daily PE limitation shall be ensured (the daily limitation was determined by multiplying the hourly limitation by 24).
- d. Emission Limitation-
7.0 tons/yr PE, including fugitive dust
- Applicable Compliance Method-
As long as compliance with the daily PE limitation is maintained, compliance with the annual PE limitation shall be ensured (the annual limitation was determined by multiplying the daily limitation by 365, and then dividing by 2000).
- e. Emission Limitation-
Visible emissions of fugitive dust shall not exceed 5% opacity, as a 3-minute average
- Applicable Compliance Method-
If required, compliance shall be determined by visible emission evaluations performed in accordance with U.S. EPA Reference Method 9 of 40 CFR Part 60, Appendix A.
- f. Emission Limitation-
Visible emissions from the stack shall not exceed 5% opacity, as a 3-minute average
- Applicable Compliance Method-
If required, compliance shall be determined by visible emission evaluations performed in accordance with U.S. EPA Reference 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 permit issuance.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for PE and the allowable opacity limitation.
 - c. The test methods which shall be employed to demonstrate compliance with the allowable mass emission rate for PE and the allowable opacity limitation are:
 - i. for PE: Methods 1 - 5 of 40 CFR, Part 60, Appendix A; and
 - ii. for opacity: Method 9 of 40 CFR, part 60, Appendix A.
 - d. The test(s) shall be conducted while the emissions unit is operating at its maximum capacity, unless otherwise approved by the appropriate Ohio EPA District Office or local air agency.
3. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the to the appropriate Ohio EPA District Office or local air agency's refusal to accept the results of the emission test (s).
- Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions

from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, when warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0829700165 Emissions Unit ID: P918 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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

- 1. None.

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

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

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

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II. **Operational Restrictions**

- 1. None

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

- 1. None

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IV. **Reporting Requirements**

- 1. None

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V. **Testing Requirements**

- 1. None

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VI. **Miscellaneous Requirements**

1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0829700165 Emissions Unit ID: P919 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Bulk Cement Loading which includes airslide conveyors, L3321A to L326A, L331A, and L332A, loading spouts, L401 and L402, and fabric filters L411 and L412	OAC rule 3745-31-05(A)(3) PTI #08-3072	0.020 gr particulate emissions (PE)/dscf of exhaust gases from the fabric filters 1.40 lbs/hr, 33.59 lbs/day, 6.13 tons/yr PE, including fugitive dust Visible emissions of fugitive dust shall not exceed 5% opacity, as a 3-minute average. Visible emissions from each fabric filter stack shall not exceed 5% opacity, as a 6-minute average.
	OAC rule 3745-17-07(A)	See A.I.2.b. The visible PE limitation specified by this rule is less stringent than the visible PE limitation established by OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-08 (B)	See A.I.2.a.
	OAC rule 3745-17-07(B)	See A.I.2.a.
	40 CFR Part 63, Subpart LLL	The visible emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-11(B)	See Part II - Specific Facility Terms and Conditions. The PE limitation specified by this rule is less stringent than the PE limitation established by OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

- a. This emissions unit is not located in an "Appendix A" area as indicated in OAC rule 3745-17-08. Therefore, the emissions unit is not subject to the RACM requirements established in OAC rule 3745-17-08(B) and the visible emission limitation specified in OAC rule 3745-17-07(B).
- b. The permittee shall comply with the preventative maintenance and malfunction abatement plan as required in PTI #08-3072.
- c. The emissions unit shall be adequately enclosed such that the collection efficiency is sufficient to eliminate visible particulate emissions of fugitive dust at the points of capture. All captured PE shall be vented to a fabric filter system.

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II. Operational Restrictions

1. This facility shall not exceed an annual cement (finished product) production limit of 1,105,104 tons/rolling, 365-day period.

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain daily records of the following information:
 - a. the amount of cement (finished product) produced, in tons; and
 - b. the rolling, 365-day cement production summation of the daily cement production rates, in tons.
2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stacks serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the 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 eliminate the visible emissions.
3. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions at the points of capture associated with this emissions unit. The presence or absence of any visible fugitive 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 eliminate the visible emissions.

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IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 365-day cement production limitation of 1,105,104 tons. These deviation reports shall be submitted in accordance with paragraph A.1.c of the General Terms and Conditions of this permit.
2. The permittee shall submit annual reports that summarize the actual annual cement production rate for this emissions unit. The reports shall be submitted by January 31 of each year and shall cover the previous calendar year.
3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible fugitive particulate emissions were observed at the points of capture associated with this emissions unit and (b) describe any corrective actions taken to eliminate the visible fugitive particulate emissions. 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.
4. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stacks serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. 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.

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V. Testing Requirements

1. Compliance with the emission limitation(s) specified in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation-
0.020 gr PE/dscf of exhaust gases from the dust collectors

Applicable Compliance Method-
If required, the permittee shall demonstrate compliance with the allowable PE limitation based on the results of emission testing conducted in accordance with USEPA Methods 1 - 5, 40 CFR, Part 60, Appendix A.
 - b. Emission Limitation-
1.40 lbs/hr PE, including fugitive dust emissions

Applicable Compliance Method-

If required, the permittee shall demonstrate compliance with the allowable PE limitation based on the results of emission testing conducted in accordance with USEPA Methods 1 - 5, 40 CFR, Part 60, Appendix A.

Also, the hourly allowable PE limitation was established as follows:

i. for stack emissions - multiply the maximum grain loading of 0.020 gr PE/dscf by the maximum exhaust gases flow rate (5,776 dscf/minute) (from dust collectors L411 and L412, combined), and by 60 minutes/hour, and then divide by 7000 grains/pound;

ii. for fugitive emissions - multiply the maximum hourly throughput (378tons per hour) for the cement transfer points associated with this emissions by the emission factor for fugitive PE of 0.00099 lb/ton (from AP-42, Table 11.12-2 (10/01)) and; by a control factor of (1 - 0.9); and *

iii. sum i + ii.

* a control efficiency of 90% is assumed for the cement handled

- c. **Emission Limitation-**
33.59 lbs/day PE, including fugitive dust emissions

Applicable Compliance Method:

As long as compliance with the hourly PE limitation is maintained, compliance with the daily PE limitation shall be ensured (the daily limitation was determined by multiplying the hourly limitation by 24).

- d. **Emission Limitation-**
6.13 tons/yr PE, including fugitive dust

Applicable Compliance Method-

As long as compliance with the daily PE limitation is maintained, compliance with the annual PE limitation shall be ensured (the annual limitation was determined by multiplying the daily limitation by 365, and then dividing by 2000).

- e. **Emission Limitation-**
Visible emissions of fugitive dust shall not exceed 5% opacity, as a 3-minute average

Applicable Compliance Method-

If required, compliance shall be determined by visible emission evaluations performed in accordance with U.S. EPA Reference Method 9 of 40 CFR Part 60, Appendix A.

- f. **Emission Limitation-**
Visible emissions from the stack shall not exceed 5% opacity, as a 3-minute average

Applicable Compliance Method-

If required, compliance shall be determined by visible emission evaluations performed in accordance with U.S. EPA Reference Method 9 of 40 CFR Part 60, Appendix A.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0829700165 Emissions Unit ID: P919 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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

1. None.

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

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall

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

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

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II. **Operational Restrictions**

- 1. None

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

- 1. None

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IV. **Reporting Requirements**

- 1. None

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V. **Testing Requirements**

- 1. None

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VI. **Miscellaneous Requirements**

- 1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0829700165 Emissions Unit ID: P922 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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

- 1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
St. Regis Bag Packing Machine #2, equipped with a fabric filter identified as MAC Equipment Co. No. 2 Packhouse fabric filter; St. Regis Bag Packing Machine #3, equipped with a fabric filter identified as Hoppps Mfg. Richmortar 4th Floor fabric filter;	OAC rule 3745-17-07(B)	Visible particulate emissions (PE) shall not exceed 20% opacity, as a 3-minute average.

OAC rule 3745-17-08(B)(3) 0.030 grain of particulate emissions (PE) per dry standard cubic foot (gr/dscf) of exhaust gases from the fabric filters, or there shall be no visible emissions from the fabric filter outlets, whichever is less stringent

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

40 CFR Part 63, Subpart LLL See Part II - Specific Facility Terms and Conditions.

2. **Additional Terms and Conditions**

- a. This emissions unit is located in an "Appendix A" area as indicated in OAC rule 3745-17-08. Therefore, the emissions unit is subject to the RACM requirements established in OAC rule 3745-17-08(B) and the visible emission limitation specified in OAC rule 3745-17-07(B).
- b. The permittee shall employ reasonably available control measures (RACM) at all times for the control of fugitive dust emissions associated with this emissions unit. The following control techniques shall be implemented to reduce fugitive dust emissions:
 - i. the use of an enclosure, hooding or other equally effective measures around the bag packing machines to minimize or eliminate visible PE of fugitive dust at the point(s) of capture to the extent possible with good engineering design; and
 - ii. all fugitive dust captured within the building enclosure shall be vented to the fabric filters on each bag packing machine. The control equipment shall achieve an outlet emission rate of not greater than 0.030 grain of particulate emissions per dry standard cubic foot of exhaust gases or there are no visible particulate from the exhaust stack(s),
- c. The Title V permit application submitted indicated that this emissions unit was installed in 1925 and modified in 1993. However, it appears that the modification involved only the installation of the fabric filters. Therefore, no permit to install application is required. Furthermore, prior to the installation of the control equipment, it appears that all emissions emitted from this emissions unit were fugitive. Therefore, OAC rules 3745-17-08(B)(3) and 3745-17-07(B) are the only applicable rules to this emissions unit.

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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 fugitive particulate emissions from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the 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.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.
2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the fabric filters serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;

- d. the total duration of any visible emission incident; and
- e. any corrective actions taken to eliminate the visible emissions.

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IV. Reporting Requirements

1. The permittee shall submit semiannual written reports that (a) identify all days during which any visible fugitive particulate emissions were observed from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit, and (b) describe any corrective actions taken to minimize or eliminate the visible fugitive particulate emissions. 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 semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the fabric filters serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. 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.

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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-
0.030 grain/dscf PE

Applicable Compliance Method-
Compliance shall be determined in accordance with U.S. EPA Reference Methods 1 through 5 of 40 CFR, Part 60, Appendix A.
 - b. Emission Limitation-
no visible emissions

Applicable Compliance Method-
If required, compliance shall be determined by visible emission evaluations performed in accordance with U.S. EPA Reference Method 22 of 40 CFR, Part 60, Appendix A.
 - c. Emission Limitation-
Visible PE shall not exceed 20% opacity, as a 3-minute average.

Applicable Compliance Method-

If required, compliance shall be determined by visible emission evaluations performed in accordance with U.S. EPA Reference 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 permit issuance.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for PE and the allowable opacity limitation.
 - c. The test methods which shall be employed to demonstrate compliance with the allowable mass emission rate for PE and the allowable opacity limitation are:
 - i. for PE: Methods 1 - 5 of 40 CFR, Part 60, Appendix A; and
 - ii. for opacity: Method 9 of 40 CFR, part 60, Appendix A.
 - d. The test(s) shall be conducted while the emissions unit is operating at its maximum capacity, unless otherwise approved by the appropriate Ohio EPA District Office or local air agency.
3. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the to the appropriate Ohio EPA District Office or local air agency's refusal to accept the results of the emission test (s).

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, when warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0829700165 Emissions Unit ID: P922 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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

1. None.

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

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

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

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II. **Operational Restrictions**

1. None

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

1. None

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IV. **Reporting Requirements**

1. None

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V. **Testing Requirements**

1. None

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VI. **Miscellaneous Requirements**

1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0829700165 Emissions Unit ID: P923 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Colored Richmortar Packer controlled by fabric filters identified as Colored Richmortar No. 2 and Colored Richmortar No. 3	OAC rule 3745-17-07(B)	Visible particulate emissions (PE) shall not exceed 20% opacity, as a 3-minute average.
	OAC rule 3745-17-08(B)(3) 40 CFR Part 63, Subpart LLL	See A.I.2.a and A.I.2.b. See Part II - Specific Facility Terms and Conditions.
	OAC rule 3745-17-07(A)	Visible PE from the stack shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-11(B)	29.2 lbs PE/hr (based on Table I of OAC rule 3745-17-11)

2. Additional Terms and Conditions

- a. This emissions unit is located in an "Appendix A" area as indicated in OAC rule 3745-17-08. Therefore, the emissions unit is subject to the RACM requirements established in OAC rule 3745-17-08(B) and the visible emission limitations specified in OAC rule 3745-17-07(B).
- b. The permittee shall employ reasonably available control measures (RACM) at all times for the control of fugitive dust emissions associated with this emissions unit. The following control techniques shall be implemented to reduce fugitive dust emissions:
 - i. the use of an enclosure, hooding or other equally effective measures to minimize or eliminate visible PE of fugitive dust at the point(s) of capture to the extent possible with good engineering design; and
 - ii. all fugitive dust captured within the enclosure shall be vented to the baghouses on each bag packing machine.

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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 fugitive particulate emissions from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the 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.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

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

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

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IV. Reporting Requirements

- 1. The permittee shall submit semiannual written reports that (a) identify all days during which any visible fugitive particulate emissions were observed from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit, and (b) describe any corrective actions taken to minimize or eliminate the visible fugitive particulate emissions. 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 semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the fabric filters serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions. 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.

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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-
29.2 lbs PE/hr

Applicable Compliance Method-
If required, the permittee shall demonstrate compliance with the PE limitation above based on the test results of stack testing conducted in accordance with OAC rule 3745-17-03(B)(10).

The permittee may also demonstrate compliance with the hourly allowable PE limitation by multiplying maximum hourly production rate (tons/hr) by the emission factor of 0.01 lb/ton (from the RACM document, Table 2.13-3), and then multiplying by a control factor of (1 - 0.99).*

* the control efficiency of the dust collectors (baghouse) is assumed to be 99%
 - b. Emission Limitation-
Visible PE from the stack shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method-
Compliance shall be determined by visible emission evaluations performed in accordance with U.S. EPA

Reference Method 9 of 40 CFR, Part 60, Appendix A.

- c. Emission Limitation-
Visible PE shall not exceed 20% opacity, as a 3-minute average.

Applicable Compliance Method-

If required, compliance shall be determined by visible emission evaluations performed in accordance with U.S. EPA Reference Method 9 of 40 CFR, Part 60, Appendix A.

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VI. **Miscellaneous Requirements**

- 1. The permittee installed this emissions unit in 1976 without first applying for and obtaining a permit to install (PTI), in violation of Chapter 3745-31 of the Ohio Administrative Code. Therefore, as the initial step for this emissions unit to achieve compliance with the applicable requirements, the permittee shall submit a complete permit to install application within 3 months following the issuance of this permit.

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Facility ID: 0829700165 Emissions Unit ID: P923 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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

- 1. None.

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

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

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

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II. **Operational Restrictions**

- 1. None

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

- 1. None

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IV. **Reporting Requirements**

- 1. None

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V. **Testing Requirements**

- 1. None

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0829700165 Emissions Unit ID: P924 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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

- 1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Pneumatic Conveying system for cement transfers from trucks to the silos at the Town Plant, with fabric filter	OAC rule 3745-31-05(A)(3) PTI # 08-3382	0.02 grain particulate emissions (PE)/dscf of exhaust gas from fabric filter S111 1.48 lbs/hr and 6.48 tons per year (TPY) PE
	OAC rule 3745-17-08(B)(3) 40 CFR Part 63, Subpart LLL OAC rule 3745-17-07(A)	Visible emissions of fugitive dust shall not exceed 5% opacity, as a 3-minute average See A.I.2.a and A.I.2.b. See Part II - Specific Facility Terms and Conditions The visible emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-11(B)	The visible emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. **Additional Terms and Conditions**

- a. This emissions unit is located in an Appendix A area, as specified in OAC rule 3745-17-08, and as such it is subject to RACM in OAC rule 3745-17-08(B) and the visible emission limitation in OAC rule 3745-17-07(B).
- b. The permittee shall employ reasonably available control measures (RACM) at all times for the control of fugitive dust emissions associated with this emissions unit. The following control techniques shall be implemented to reduce fugitive dust emissions:
 - i. the use of an enclosure, hooding or other equally effective measures to minimize or eliminate visible PE of fugitive dust at the point(s) of capture to the extent possible with good engineering design; and
 - ii. all fugitive dust captured within the building enclosure shall be vented to fabric filters on the cement storage silos.

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II. **Operational Restrictions**

- 1. None

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

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

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IV. Reporting Requirements

1. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the 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 semiannual written reports that (a) identify all days during which any visible fugitive particulate emissions were observed from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit, and (b) describe any corrective actions taken to eliminate the visible fugitive particulate emissions. 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.

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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-
1.48 lbs PE/hour

Applicable Compliance Method-
The permittee shall demonstrate compliance with the allowable PE limitation based on the results of emission testing conducted in accordance with USEPA Methods 1 - 5, 40 CFR, Part 60, Appendix A.

Also, the hourly allowable PE limit is based on the maximum grain loading 0.02 gr/dscf multiplied by the maximum exhaust flow rate (8,660 dscf/minute) (for the fabric filters on the cement storage collectors) and by 60 minutes/hour, and then divided by 7,000 grains per pound.
 - b. Emission Limitation-
6.48 tons/year PE

Applicable Compliance Method-
As long as compliance with the hourly emissions limited is maintained compliance with the annual emissions limitation shall be assumed. The annual emissions limit was determined by multiplying the hourly limitation 8,760 hours/year and dividing by 2,000 pounds per ton
 - c. Emission Limitation-
0.020 grain/dscf

Applicable Compliance Method-
The permittee shall demonstrate compliance with the allowable PE limitation based on the results of emission testing conducted in accordance with USEPA Methods 1 - 5, 40 CFR, Part 60, Appendix A.

- d. Emission Limitation-
Visible emissions of fugitive dust shall not exceed 5% opacity, as a 3-minute average
- Applicable Compliance Method-
If required, Compliance shall be determined by visible emission evaluations performed in accordance with U.S. EPA Reference 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:
- The emission testing shall be conducted within 6 months after permit issuance.
 - The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for PE and the allowable opacity limitation.
 - The test methods which shall be employed to demonstrate compliance with the allowable mass emission rate for PE and the allowable opacity limitation are:
 - for PE: Methods 1 - 5 of 40 CFR, Part 60, Appendix A; and
 - for opacity: Method 9 of 40 CFR, part 60, Appendix A.
 - The test(s) shall be conducted while the emissions unit is operating at its maximum capacity, unless otherwise approved by the appropriate Ohio EPA District Office or local air agency.
3. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the to the appropriate Ohio EPA District Office or local air agency's refusal to accept the results of the emission test (s).

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, when warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

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VI. **Miscellaneous Requirements**

- The surge tank (S113) and associated dust collector (S111) that were originally included in this permit were not installed. The dust collectors on the silos are used to control particulate emissions from the cement transfer operations.

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Facility ID: 0829700165 Emissions Unit ID: P924 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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

- None.

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

- 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: 0829700165 Emissions Unit ID: P925 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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

- 1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Raw Material and Recycled Material Handling and Storage System; Hopper, Enclosed System: Bucket Elevator, Belt Conveyor, Silo with Filter, Rotary Feeder, & Weigh Feeder; Partially Enclosed Belt Conveyor	OAC rule 3745-31-05 (A)(3) PTI 08-04127	3.63 lbs/hr particulate emissions (PE) -fugitive emissions Visible fugitive PE shall not exceed 10 percent opacity, as a six-minute average.
	OAC rule 3745-31-05(D) PTI 08-04127	The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D) and 40 CFR Part 63, Subpart LLL. 4.4 tons fugitive PE/rolling, 12-month period (see A.I.2.b)

40 CFR Part 63, Subpart LLL See Part II - Specific Facility Terms and Conditions.
 OAC rule 3745-17-08 (B) See A.I.2.c.
 OAC rule 3745-17-07 See A.I.2.c.

2. **Additional Terms and Conditions**

- a. The 3.63 lbs PE/hr limitation was established for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limitation.
- b. In order to avoid Prevention of Significant Deterioration (PSD) review for PE, the permittee has opted to limit the potential to emit from this emissions unit by limiting the annual production rate and, thereby, limiting the annual emission rate.
- c. This emissions unit is not located in an "Appendix A" area as indicated in OAC rule 3745-17-08. Therefore, the emissions unit is not subject to the RACM requirements established in OAC rule 3745-17-08(B) and the visible emission limitations specified in OAC rule 3745-17-07(B).

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II. **Operational Restrictions**

1. The maximum annual production rate for this emissions unit shall not exceed 303,779 tons/rolling, 12-month period.

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

1. The permittee shall maintain monthly records of the following information for this emissions unit:
 - a. the production rate, in tons;
 - b. the rolling, 12-month summation of the monthly production rates, in tons; and
 - c. the rolling, 12-month summation of the monthly PE rates [(A.III.1.b x 0.029 lb PE/ton)/2000], in tons.
 * USEPA reference document AP-42, Table 11.12-2, dated 10/86, reformatted 1/95
2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions 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 eliminate the visible emissions.

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IV. **Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. all exceedances of the rolling, 12-month production limitation of 303,779 tons.
 - b. all exceedances of the rolling, 12-month PE limitation of 4.4 tons.

These deviation reports shall be submitted in accordance with paragraph A.1.c of the General Terms and Conditions of this permit.
2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible fugitive particulate emissions were observed from this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. 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.

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V. **Testing Requirements**

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

- a. Emission Limitation-
3.63 lbs/hr fugitive PE

Applicable Compliance Method-
The hourly allowable PE limitation was established by multiplying the maximum hourly handling rate of 125 tons by the emission factor of 0.0029 lb PE/ton, from USEPA reference document AP-42, Table 11.19.2-2, dated 10/86, reformatted 1/95.
- b. Emission Limitation-
4.4 tons fugitive PE/rolling, 12-month period

Applicable Compliance Method-
Compliance with the annual allowable PE limitation shall be based on the record keeping requirements established in section A.III.1 of this permit.
- c. Emission Limitation-
Visible fugitive PE shall not exceed 10 percent opacity, as a six-minute average.

Applicable Compliance Method-
If required, compliance shall be determined by visible emission evaluations performed in accordance with U.S. EPA Reference Method 9 of 40 CFR Part 60, Appendix A.

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0829700165 Emissions Unit ID: P925 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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

- 1. None.

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

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

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

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II. **Operational Restrictions**

- 1. None

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

- 1. None

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IV. **Reporting Requirements**

1. None

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V. **Testing Requirements**

1. None

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0829700165 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

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Facility ID: 0829700165 Emissions Unit ID: P927 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Slag Reclaim System	OAC rule 3745-31-05 (A)(3) PTI 08-04283	4.83 lbs/hr particulate emissions (PE)- fugitive emissions Visible fugitive PE shall not exceed 10 percent opacity, as a six-minute average.
	OAC rule 3745-31-05(D) PTI 08-04283 40 CFR Part 63, Subpart LLL OAC rule 3745-17-08 (B)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D) and 40 CFR Part 63, Subpart LLL. 3.95 tons fugitive PE/rolling, 12-month period (see A.I.2.b) See Part II - Specific Facility Terms and Conditions. See A.I.2.c.
	OAC rule 3745-17-07(B)	See A.I.2.c.

2. Additional Terms and Conditions

- a. The 4.83 lbs PE/hr limitation was established for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limitation.
- b. In order to avoid Prevention of Significant Deterioration (PSD) review for PE, the permittee has opted to limit the potential to emit from this emissions unit by limiting the annual production rate and, thereby, limiting the annual emission rate.
- c. This emissions unit is not located in an "Appendix A" area as indicated in OAC rule 3745-17-08. Therefore, the emissions unit is not subject to the RACM requirements established in OAC rule 3745-17-08(B) and the visible emission limitations specified in OAC rule 3745-17-07(B).

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II. Operational Restrictions

1. The maximum annual production rate for this emissions unit shall not exceed 175,200 tons/rolling, 12-month period.

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the following information for this emissions unit:
 - a. the production rate, in tons;
 - b. the rolling, 12-month summation of the monthly production rates, in tons; and
 - c. the rolling, 12-month summation of the monthly PE rates, in tons, calculated as follows:
 - i. for load in and out of storage piles, multiply the rolling, 12-month production rate (from section A.III.1.b above) by the emission factor of 0.0224 lb PE/ton, * and then divide by 2000;
 - ii. for material handling, multiply the rolling, 12-month production rate (from section A.III.1.b above) by the emission factor of 0.0174 lb/ton, ** and then divide by 2000;
 - iii. for wind erosion, 0.46 ton; and
 - iv. sum i + ii + iii.

* derived by multiplying the emission factor, from AP-42, Fifth Edition, Section 13.2.4, dated 1/95, of 0.0112 lb/ton by 2 (for loading in and out)

** derived by multiplying the emissions factor, from AP-42, Fifth Edition, Table 11.19.2-2, dated 1/95, of 0.0029 lb PE/ton [0.0014 lb PM-10/ton x 2.1] by 6 (for the number of transfer points)
2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions 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 eliminate the visible emissions.

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IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. all exceedances of the rolling, 12-month production limitation of 175,200 tons.
 - b. all exceedances of the rolling, 12-month PE limitation of 3.95 tons.

These deviation reports shall be submitted in accordance with paragraph A.1.c of the General Terms and Conditions of this permit.
2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible fugitive particulate emissions were observed from this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. 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.

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V. Testing Requirements

1. Compliance with the emission limitations in section A.I. of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation-
4.83 lbs/hr fugitive PE

Applicable Compliance Method-
The hourly allowable PE limitation was established as follows:
 - i. for load in and out of storage piles, multiply the maximum hourly transfer rate of 200 tons (from section

A.III.1.b above) by the emission factor of 0.0224 lb PE/ton;*

ii. for material handling, multiply the maximum hourly transfer rate of 200 tons (from section A.III.1.b above) by the emission factor of 0.0174 lb/ton;** and

iii. sum i + ii.

* derived by multiplying the emission factor, from AP-42, Fifth Edition, Section 13.2.4, dated 1/95, of 0.0112 lb/ton by 2 (for loading in and out)

** derived by multiplying the emissions factor, from AP-42, Fifth Edition, Table 11.19.2-2, dated 1/95, of 0.0029 lb PE/ton [0.0014 lb PM-10/ton x 2.1] by 6 (for the number of transfer points)

b. Emission Limitation-
3.95 tons fugitive PE/rolling, 12-month period

Applicable Compliance Method-
Compliance with the annual allowable PE limitation based on the record keeping requirements established in section A.III.1 of this permit.

c. Emission Limitation-
Visible fugitive PE shall not exceed 10 percent opacity, as a six-minute average.

Applicable Compliance Method-
If required, compliance shall be determined by visible emission evaluations performed in accordance with U.S. EPA Reference Method 9 of 40 CFR Part 60, Appendix A.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0829700165 Emissions Unit ID: P927 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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

1. None.

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

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

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

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II. **Operational Restrictions**

1. None

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

1. None

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IV. **Reporting Requirements**

1. None

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V. **Testing Requirements**

1. None

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VI. **Miscellaneous Requirements**

1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0829700165 Emissions Unit ID: P928 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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

1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
K304 Clinker Silo System	OAC rule 3745-31-05 (A)(3) PTI 08-04283	3.73 lbs/hr particulate emissions (PE)- fugitive emissions
		Visible fugitive PE from the stack shall not exceed 10 percent opacity, as a six-minute average.
		The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D) and 40 CFR Part 63, Subpart LLL.
	OAC rule 3745-31-05(D) PTI 08-04283	4.68 tons fugitive PE/rolling, 12-month period (see A.I.2.b)
	40 CFR Part 63, Subpart LLL	See Part II - Specific Facility Terms and Conditions.
	OAC rule 3745-17-08 (B)	See A.I.2.c.
	OAC rule 3745-17-07(B)	See A.I.2.c.

2. **Additional Terms and Conditions**

- a. The 3.73 lbs PE/hr limitation was established for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limitation.
- b. In order to avoid Prevention of Significant Deterioration (PSD) review for PE, the permittee has opted to limit the potential to emit from this emissions unit by limiting the annual production rate and, thereby, limiting the annual emission rate.
- c. This emissions unit is not located in an "Appendix A" area as indicated in OAC rule 3745-17-08. Therefore, the emissions unit is not subject to the RACM requirements established in OAC rule 3745-17-08(B) and the visible emission limitations specified in OAC rule 3745-17-07(B).

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II. Operational Restrictions

1. The maximum annual production rate for this emissions unit shall not exceed 177,420 tons/rolling, 12-month period.

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the following information for this emissions unit:
 - a. the production rate, in tons;
 - b. the rolling, 12-month summation of the monthly production rates, in tons; and
 - c. the rolling, 12-month summation of the monthly PE rates, in tons, calculated as follows:
 - i. for load in and out of storage piles, multiply the rolling, 12-month production rate (from section A.III.1.b above) by the emission factor of 0.0224 lb PE/ton, * and then divide by 2000;
 - ii. for material handling, multiply the rolling, 12-month production rate (from section A.III.1.b above) by the emission factor of 0.00874 lb/ton, ** and then divide by 2000;
 - iii. for wind erosion, 1.92 tons; and
 - iv. sum i + ii + iii.

* derived by multiplying the emission factor, from AP-42, Fifth Edition, Section 13.2.4, dated 1/95, of 0.0112 lb/ton by 2 (for loading in and out)

** derived by multiplying the emissions factor, from AP-42, Fifth Edition, Table 11.19.2-2, dated 1/95, of 0.0029 lb PE/ton [0.0014 lb PM-10/ton x 2.1] by 3 (for the number of transfer points)
2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions 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 eliminate the visible emissions.

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IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. all exceedances of the rolling, 12-month production limitation of 177,420 tons.
 - b. all exceedances of the rolling, 12-month PE limitation of 4.68 tons.

These deviation reports shall be submitted in accordance with paragraph A.1.c of the General Terms and Conditions of this permit.
2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible fugitive particulate emissions were observed from this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. 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.

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V. Testing Requirements

1. Compliance with the emission limitations in section A.I. of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation-
3.73 lbs/hr fugitive PE

Applicable Compliance Method-

The hourly allowable PE limitation was established as follows:

- i. for load in and out of storage piles, multiply the maximum hourly transfer rate of 120 tons (from section A.III.1.b above) by the emission factor of 0.0224 lb PE/ton;*
- ii. for material handling, multiply the maximum hourly transfer rate of 120 tons (from section A.III.1.b above) by the emission factor of 0.0087 lb/ton;** and
- iii. sum i + ii.

* derived by multiplying the emission factor, from AP-42, Fifth Edition, Section 13.2.4, dated 1/95, of 0.0112 lb/ton by 2 (for loading in and out)

** derived by multiplying the emissions factor, from AP-42, Fifth Edition, Table 11.19.2-2, dated 1/95, of 0.0029 lb PE/ton [0.0014 lb PM-10/ton x 2.1] by 3 (for the number of transfer points)

- b. Emission Limitation-
3.95 tons fugitive PE/rolling, 12-month period

Applicable Compliance Method-

Compliance with the annual allowable PE limitation based on the record keeping requirements established in section A.III.1 of this permit.

- c. Emission Limitation-
Visible fugitive PE shall not exceed 10 percent opacity, as a six-minute average.

Applicable Compliance Method-

If required, compliance shall be determined by visible emission evaluations performed in accordance with U.S. EPA Reference Method 9 of 40 CFR Part 60, Appendix A.

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0829700165 Emissions Unit ID: P928 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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

- 1. None.

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

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

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
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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: 0829700165 Emissions Unit ID: P929 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Synthetic gypsum hopper and conveyor	OAC rule 3745-31-05(A)(3) PTI# 08-4441	0.21 lb/hour and 0.92 ton per year (TPY) particulate emissions (PE) The visible emissions opacity shall not exceed 10 percent as a six-minute average. See A.I.2.a.
	40 CFR Part 63 Subpart LLL OAC rule 3745-17-07(B)	See Part II - Specific Facility Terms and Conditions The emissions limits specified by this regulation are equivalent to the emissions limits established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-08(B)	See A.I.2.b. The emissions limits specified by this regulation are equivalent to the emissions limits established pursuant to OAC rule 3745-31-05(A)(3).

See A.I.2.b.

2. Additional Terms and Conditions

- a. The 0.21 lb/hour particulate emissions limitation was established for permit to install (PTI) purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.

- b. This emissions unit is not located in an Appendix A area, as specified in OAC rule 3745-17-08, and as such it is not subject to RACM in OAC rule 3745-17-08(B) or the visible emission limitation in OAC rule 3745-17-07(B).

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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 fugitive particulate emissions 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 eliminate the visible emissions.

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IV. Reporting Requirements

1. The permittee shall submit semiannual written reports that (a) identify all days during which any visible fugitive particulate emissions were observed from this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. 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.

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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-
0.21 lb/hour particulate emissions

Applicable Compliance Method-
The particulate emissions from the synthetic gypsum hopper and conveyor were developed by multiplying the maximum hourly transfer rate of 50 TPH by the AP-42 emission factor of 0.0042 lb PE/ton (3 transfer points multiplied by 0.0014 lb PE/ton) Reference: AP-42 Table 11.19.2-2.
 - b. Emission Limitation-
0.92 TPY particulate emissions

Applicable Compliance Method-
The particulate emissions from the synthetic gypsum hopper and conveyor were developed by multiplying the maximum hourly transfer rate of 50 TPH times 8,760 hours per year and by the AP-42 emission factor of 0.0042 lb PE/ton (3 transfer points multiplied by 0.0014 lb PE/ton) Reference: AP-42 Table 11.19.2-2.
 - c. 10% opacity, as a sixminute average

Applicable Compliance Method-

The permittee shall demonstrate compliance with the visible emissions limitation above in accordance with OAC rule 3745-17-03(B)(3).
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 permit issuance and within 6 months of permit expiration.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable opacity limitation.

- c. The test method which shall be employed to demonstrate compliance with the allowable opacity limitation: Method 9 of 40 CFR, Part 60, Appendix A.
 - d. The test(s) shall be conducted while the emissions unit is operating at its maximum capacity, unless otherwise approved by the appropriate Ohio EPA District Office or local air agency.
3. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the to the appropriate Ohio EPA District Office or local air agency's refusal to accept the results of the emission test (s).

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, when warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0829700165 Emissions Unit ID: P929 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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

- 1. None.

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

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

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

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II. **Operational Restrictions**

- 1. None

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

- 1. None

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IV. **Reporting Requirements**

1. None

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V. **Testing Requirements**

1. None

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VI. **Miscellaneous Requirements**

1. None