



12/8/2014

Bradley Belden
 The Belden Brick Company
 P.O. Box 430
 Sugarcreek, OH 44681-0430

RE: FINALAIR POLLUTION PERMIT-TO-INSTALL
 Facility ID: 0679000118
 Permit Number: P0117562
 Permit Type: OAC Chapter 3745-31 Modification
 County: Tuscarawas

Certified Mail

No	TOXIC REVIEW
No	PSD
No	SYNTHETIC MINOR TO AVOID MAJOR NSR
No	CEMS
No	MACT/GACT
No	NSPS
No	NESHAPS
No	NETTING
No	MAJOR NON-ATTAINMENT
No	MODELING SUBMITTED
No	MAJOR GHG
No	SYNTHETIC MINOR TO AVOID MAJOR GHG

Dear Permit Holder:

Enclosed please find a final Ohio Environmental Protection Agency (EPA) Air Pollution Permit-to-Install (PTI) which will allow you to install or modify the described emissions unit(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, we urge you to read it carefully. Because this permit contains conditions and restrictions, please read it very carefully. In this letter you will find the information on the following topics:

- **How to appeal this permit**
- **How to save money, reduce pollution and reduce energy consumption**
- **How to give us feedback on your permitting experience**
- **How to get an electronic copy of your permit**

How to appeal this permit

The issuance of this PTI is a final action of the Director and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00, made payable to "Ohio Treasurer Josh Mandel," which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
 77 South High Street, 17th Floor
 Columbus, OH 43215

How to save money, reduce pollution and reduce energy consumption

The Ohio EPA is encouraging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Compliance Assistance and Pollution Prevention at (614) 644-3469. Additionally, all or a portion of the capital expenditures related to installing air pollution control equipment under this permit may be eligible for financing and State tax exemptions through the Ohio Air Quality Development Authority (OAQDA) under Ohio Revised Code Section 3706. For more information, see the OAQDA website: www.ohioairquality.org/clean_air

How to give us feedback on your permitting experience

Please complete a survey at www.epa.ohio.gov/survey.aspx and give us feedback on your permitting experience. We value your opinion.

How to get an electronic copy of your permit

This permit can be accessed electronically via the eBusiness Center: Air Services in Microsoft Word format or in Adobe PDF on the Division of Air Pollution Control (DAPC) Web page, www.epa.ohio.gov/dapc by clicking the "Search for Permits" link under the Permitting topic on the Programs tab.

If you have any questions, please contact Ohio EPA DAPC, Southeast District Office at (740)3858501 or the Office of Compliance Assistance and Pollution Prevention at (614)644-3469.

Sincerely,



Erica R. Engel-Ishida, Manager
Permit Issuance and Data Management Section, DAPC

Cc: U.S. EPA
Ohio EPA-SEDO; Pennsylvania; West Virginia



FINAL

**Division of Air Pollution Control
Permit-to-Install
for
The Belden Brick Company**

Facility ID:	0679000118
Permit Number:	P0117562
Permit Type:	OAC Chapter 3745-31 Modification
Issued:	12/8/2014
Effective:	12/8/2014



Division of Air Pollution Control
Permit-to-Install
for
The Belden Brick Company

Table of Contents

Authorization	1
A. Standard Terms and Conditions	3
1. Federally Enforceable Standard Terms and Conditions	4
2. Severability Clause	4
3. General Requirements	4
4. Monitoring and Related Record Keeping and Reporting Requirements.....	5
5. Scheduled Maintenance/Malfunction Reporting	6
6. Compliance Requirements	6
7. Best Available Technology	7
8. Air Pollution Nuisance	8
9. Reporting Requirements	8
10. Applicability	8
11. Construction of New Sources(s) and Authorization to Install	8
12. Permit-To-Operate Application	9
13. Construction Compliance Certification	10
14. Public Disclosure	10
15. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations	10
16. Fees.....	10
17. Permit Transfers	10
18. Risk Management Plans	10
19. Title IV Provisions	10
B. Facility-Wide Terms and Conditions.....	11
C. Emissions Unit Terms and Conditions	13
1. F707, Aggregate Processing Plant.....	14



Final Permit-to-Install
The Belden Brick Company
Permit Number: P0117562
Facility ID: 0679000118
Effective Date: 12/8/2014

Authorization

Facility ID: 0679000118
Facility Description: The Belden Brick Company Plants 2, 3, 4, 6, 8, and 9.
Application Number(s): A0051676
Permit Number: P0117562
Permit Description: Chapter 31 modification permit to authorize emissions increases from the addition of one load-in point and one conveyor transfer point and administrative modification to allow a change from a 450 TPH crusher to a 75 TPH crusher and the processing of brick in addition to limestone and coal without any changes to the existing federally enforceable operating restrictions
Permit Type: OAC Chapter 3745-31 Modification
Permit Fee: \$1,250.00
Issue Date: 12/8/2014
Effective Date: 12/8/2014

This document constitutes issuance to:

The Belden Brick Company
475 Dover Road
Sugarcreek, OH 44681-0430

of a Permit-to-Install for the emissions unit(s) identified on the following page.

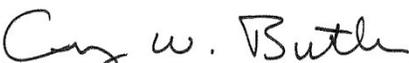
Ohio Environmental Protection Agency (EPA) District Office or local air agency responsible for processing and administering your permit:

Ohio EPA DAPC, Southeast District Office
2195 Front Street
Logan, OH 43138
(740)385-8501

The above named entity is hereby granted a Permit-to-Install for the emissions unit(s) listed in this section pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency


Craig W. Butler
Director



Final Permit-to-Install
The Belden Brick Company
Permit Number: P0117562
Facility ID: 0679000118
Effective Date: 12/8/2014

Authorization (continued)

Permit Number: P0117562
Permit Description: Chapter 31 modification permit to authorize emissions increases from the addition of one load-in point and one conveyor transfer point and administrative modification to allow a change from a 450 TPH crusher to a 75 TPH crusher and the processing of brick in addition to limestone and coal without any changes to the existing federally enforceable operating restrictions

Permits for the following Emissions Unit(s) or groups of Emissions Units are in this document as indicated below:

Emissions Unit ID:	F707
Company Equipment ID:	F707
Superseded Permit Number:	P0105813
General Permit Category and Type:	Not Applicable



Final Permit-to-Install
The Belden Brick Company
Permit Number: P0117562
Facility ID: 0679000118
Effective Date: 12/8/2014

A. Standard Terms and Conditions



1. Federally Enforceable Standard Terms and Conditions

- a) All Standard Terms and Conditions are federally enforceable, with the exception of those listed below which are enforceable under State law only:
 - (1) Standard Term and Condition A.2.a), Severability Clause
 - (2) Standard Term and Condition A.3.c) through A. 3.e) General Requirements
 - (3) Standard Term and Condition A.6.c) and A. 6.d), Compliance Requirements
 - (4) Standard Term and Condition A.9., Reporting Requirements
 - (5) Standard Term and Condition A.10., Applicability
 - (6) Standard Term and Condition A.11.b) through A.11.e), Construction of New Source(s) and Authorization to Install
 - (7) Standard Term and Condition A.14., Public Disclosure
 - (8) Standard Term and Condition A.15., Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations
 - (9) Standard Term and Condition A.16., Fees
 - (10) Standard Term and Condition A.17., Permit Transfers

2. Severability Clause

- a) A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.
- b) All terms and conditions designated in parts B and C of this permit are federally enforceable as a practical matter, if they are required under the Act, or any of its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA and the State and by citizens (to the extent allowed by section 304 of the Act) under the Act. Terms and conditions in parts B and C of this permit shall not be federally enforceable and shall be enforceable under State law only, only if specifically identified in this permit as such.

3. General Requirements

- a) Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and re-issuance, or modification.



- b) It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.
- c) This permit may be modified, revoked, or revoked and reissued, for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.
- d) This permit does not convey any property rights of any sort, or any exclusive privilege.
- e) The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

4. Monitoring and Related Record Keeping and Reporting Requirements

- a) Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
 - (1) The date, place (as defined in the permit), and time of sampling or measurements.
 - (2) The date(s) analyses were performed.
 - (3) The company or entity that performed the analyses.
 - (4) The analytical techniques or methods used.
 - (5) The results of such analyses.
 - (6) The operating conditions existing at the time of sampling or measurement.
- b) Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.
- c) Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:
 - (1) Reports of any required monitoring and/or recordkeeping of federally enforceable information shall be submitted to the Ohio EPA DAPC, Southeast District Office.



- (2) Quarterly written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be made to the Ohio EPA DAPC, Southeast District Office. The written reports shall be submitted (i.e., postmarked) quarterly, by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. See A.15. below if no deviations occurred during the quarter.
 - (3) Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted to the Ohio EPA DAPC, Southeast District Office every six months, by January 31 and July 31 of each year for the previous six calendar months. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.
 - (4) This permit is for an emissions unit located at a Title V facility. Each written report shall be signed by a responsible official certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.
- d) The permittee shall report actual emissions pursuant to OAC Chapter 3745-78 for the purpose of collecting Air Pollution Control Fees.

5. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction, i.e., upset, of any emissions units or any associated air pollution control system(s) shall be reported to the Ohio EPA DAPC, Southeast District Office in accordance with paragraph (B) of OAC rule 3745-15-06. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports shall be submitted pursuant to OAC rule 3745-15-06.

Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emission unit(s) that is (are) served by such control system(s).

6. Compliance Requirements

- a) All applications, notifications or reports required by terms and conditions in this permit to be submitted or "reported in writing" are to be submitted to Ohio EPA through the Ohio EPA's eBusiness Center: Air Services web service ("Air Services"). Ohio EPA will accept hard copy submittals on an as-needed basis if the permittee cannot submit the required documents through the Ohio EPA eBusiness Center. In the event of an alternative hard copy submission in lieu of the eBusiness Center, the post-marked date or the date the document is delivered in person will be recognized as the date submitted. Electronic submission of applications, notifications or reports required to be submitted to Ohio EPA fulfills the requirement to submit the required information to the Director, the appropriate Ohio EPA District Office or contracted



local air agency, and/or any other individual or organization specifically identified as an additional recipient identified in this permit unless otherwise specified. Consistent with OAC rule 3745-15-03, the electronic signature date shall constitute the date that the required application, notification or report is considered to be "submitted". Any document requiring signature may be represented by entry of the personal identification number (PIN) by responsible official as part of the electronic submission process or by the scanned attestation document signed by the Authorized Representative that is attached to the electronically submitted written report.

Any document (including reports) required to be submitted and required by a federally applicable requirement in this permit shall include a certification by a Responsible Official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.

- b) Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:
 - (1) At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
 - (2) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with ORC section 3704.08.
 - (3) Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
 - (4) As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.
- c) The permittee shall submit progress reports to the Ohio EPA DAPC, Southeast District Office concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:
 - (1) Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
 - (2) An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

7. Best Available Technology

As specified in OAC Rule 3745-31-05, new sources that must employ Best Available Technology (BAT) shall comply with the Applicable Emission Limitations/Control Measures identified as BAT for each subject emissions unit.



8. Air Pollution Nuisance

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

9. Reporting Requirements

The permittee shall submit required reports in the following manner:

- a) Reports of any required monitoring and/or recordkeeping of state-only enforceable information shall be submitted to the Ohio EPA DAPC, Southeast District Office.
- b) Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from state-only required emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the Ohio EPA DAPC, Southeast District Office. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

10. Applicability

This Permit-to-Install is applicable only to the emissions unit(s) identified in the Permit-to-Install. Separate application must be made to the Director for the installation or modification of any other emissions unit(s) not exempt from the requirement to obtain a Permit-to-Install.

11. Construction of New Sources(s) and Authorization to Install

- a) This permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. This permit does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the application and terms and conditions of this permit. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of this permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Issuance of this permit is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.
- b) If applicable, authorization to install any new emissions unit included in this permit shall terminate within eighteen months of the effective date of the permit if the owner or operator has not undertaken a continuing program of installation or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation. This deadline may be extended by up to 12 months if application is made to the



Director within a reasonable time before the termination date and the permittee shows good cause for any such extension.

- c) The permittee may notify Ohio EPA of any emissions unit that is permanently shut down (i.e., the emissions unit has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31) by submitting a certification from the authorized official that identifies the date on which the emissions unit was permanently shut down. Authorization to operate the affected emissions unit shall cease upon the date certified by the authorized official that the emissions unit was permanently shut down. At a minimum, notification of permanent shut down shall be made or confirmed by marking the affected emissions unit(s) as "permanently shut down" in "Air Services" along with the date the emissions unit(s) was permanently removed and/or disabled. Submitting the facility profile update electronically will constitute notifying the Director of the permanent shutdown of the affected emissions unit(s).
- d) The provisions of this permit shall cease to be enforceable for each affected emissions unit after the date on which an emissions unit is permanently shut down (i.e., emissions unit has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31). All records relating to any permanently shutdown emissions unit, generated while the emissions unit was in operation, must be maintained in accordance with law. All reports required by this permit must be submitted for any period an affected emissions unit operated prior to permanent shut down. At a minimum, the permit requirements must be evaluated as part of the reporting requirements identified in this permit covering the last period the emissions unit operated.

Unless otherwise exempted, no emissions unit certified by the responsible official as being permanently shut down may resume operation without first applying for and obtaining a permit pursuant to OAC Chapter 3745-31 and OAC Chapter 3745-77 if the restarted operation is subject to one or more applicable requirements.

- e) The permittee shall comply with any residual requirements related to this permit, such as the requirement to submit a deviation report, air fee emission report, or other any reporting required by this permit for the period the operating provisions of this permit were enforceable, or as required by regulation or law. All reports shall be submitted in a form and manner prescribed by the Director. All records relating to this permit must be maintained in accordance with law.

12. Permit-To-Operate Application

The permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77. The permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if operation of the proposed new or modified source(s) as authorized by this permit would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d) must be obtained before operating the source in a manner that would violate the existing Title V permit requirements.



13. Construction Compliance Certification

The applicant shall identify the following dates in the "Air Services" facility profile for each new emissions unit identified in this permit.

- a) Completion of initial installation date shall be entered upon completion of construction and prior to start-up.
- b) Commence operation after installation or latest modification date shall be entered within 90 days after commencing operation of the applicable emissions unit.

14. Public Disclosure

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

15. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations

If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

16. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable permit-to-install fees within 30 days after the issuance of any permit-to-install. The permittee shall pay all applicable permit-to-operate fees within thirty days of the issuance of the invoice.

17. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The new owner must update and submit the ownership information via the "Owner/Contact Change" functionality in "Air Services" once the transfer is legally completed. The change must be submitted through "Air Services" within thirty days of the ownership transfer date.

18. Risk Management Plans

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. 7401 et seq. ("Act"), the permittee shall comply with the requirement to register such a plan.

19. Title IV Provisions

If the permittee is subject to the requirements of 40 CFR Part 72 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.



Final Permit-to-Install
The Belden Brick Company
Permit Number: P0117562
Facility ID: 0679000118
Effective Date: 12/8/2014

B. Facility-Wide Terms and Conditions



Final Permit-to-Install
The Belden Brick Company
Permit Number: P0117562
Facility ID: 0679000118
Effective Date: 12/8/2014

1. All the following facility-wide terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only:
 - a) None.
2. Emissions unit F707 contained in this permit is subject to 40 CFR Part 60, Subpart OOO when limestone is processed. The complete NSPS requirements, including the NSPS General Provisions, may be accessed via the internet from the Electronic Code of Federal Regulation (e-CFR) website <http://ecfr.gpoaccess.gov> or by contacting the appropriate Ohio EPA District office or local air agency.
3. Emissions unit F707 contained in this permit is subject to 40 CFR Part 60, Subpart Y when coal is processed. The complete NSPS requirements, including the NSPS General Provisions, may be accessed via the internet from the Electronic Code of Federal Regulation (e-CFR) website <http://ecfr.gpoaccess.gov> or by contacting the appropriate Ohio EPA District office or local air agency.



Final Permit-to-Install
The Belden Brick Company
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C. Emissions Unit Terms and Conditions



1. F707, Aggregate Processing Plant

Operations, Property and/or Equipment Description:

75 ton per hour limestone, coal and/or brick processing plant consisting of one load-in point to the crusher, one primary crusher controlled with water sprays, two sizing screens, one hopper load-in point controlled with water sprays and six conveyors with a maximum annual throughput (limestone, coal and brick) of 440,000 tons; Chapter 31 modification to authorize increases in emissions from the addition of one load-in hopper and one conveyor, and administrative modification to update the crusher from the original 450 TPH crusher to the new 75 TPH crusher and to authorize brick crushing in addition to limestone and coal crushing; supersedes PTI P0105813 issued on March 22, 2011 for EU F707

- a) 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.
- b) Applicable Emissions Limitations and/or Control Requirements
 - (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	ORC 3704.03(T) and OAC rule 3745-31-05(A)(3)	The requirements of this rule are equivalent to the requirements of OAC rule 3745-31-05(D) for particulate matter (PM).
b.	OAC rule 3745-31-05(D) (Synthetic minor to avoid PSD requirements for PE)	Particulate emissions (PE) shall not exceed 22.31 tons based on a rolling, 12-month summation. See c)(1) below.
c.	OAC rule 3745-31-05(A)(3), as effective 6/30/08	Emissions of particulate matter less than 10 microns (PM ₁₀) shall not exceed 0.57 ton per month averaged over a twelve-month rolling period. Emissions of particulate matter less than 2.5 microns (PM _{2.5}) shall not exceed 0.54 ton per month averaged over a twelve-month rolling period. See b)(2)a. below.
d.	OAC rule 3745-31-05(A)(3)(a)(ii)	The Best Available Technology (BAT) requirements under OAC rule 3745-31-



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		05(A)(3) do not apply to the PM ₁₀ and PM _{2.5} from this air contaminant source since the calculated annual emission rate of PM ₁₀ and PM _{2.5} is less than 10 tons/yr taking into account the voluntary restriction. See b)(2)b. below.
e.	OAC rule 3745-31-05(E), as effective 06/30/08 (Voluntary restriction to avoid BAT for PM ₁₀ and PM _{2.5})	The permittee shall: maintain the moisture carried over from the water spray at the crusher as needed to control fugitive dust generated from this emissions source; limit the maximum annual throughput rate (limestone, coal and brick, combined) for this emissions unit shall not exceed 440,000 tons; and ensure that PM ₁₀ emissions do not exceed 6.89 tons per year and PM _{2.5} emissions do not exceed 6.43 tons per year.
f.	OAC rule 3745-17-07(B)	See b)(2)c. below.
g.	OAC rule 3745-17-08(B)	See b)(2)d. below.
h.	40 CFR Part 60, Subpart Y (40 CFR 60.250 – 60.258) [In accordance with 40 CFR 60.250, this emissions unit contains affected facilities in a coal preparation plant which processes more than 200 tons of coal per day and includes coal processing and conveying equipment installed after May 27, 2009 when processing coal. This rule is applicable only when coal is processed.]	No discharge into the atmosphere from the affected facility of any gases which exhibit 10 percent opacity or greater. [40 CFR 60.254(b)(1)] See b)(2)e. and f. below.
i.	40 CFR 60.1-19 (40 CFR 60.1a)	The provisions of Subpart A apply to the owner or operator of any stationary source which contains an affected facility that commenced construction or modification after the date of publication in 40 CFR Part 60 that is applicable to that facility.
j.	40 CFR Part 60, Subpart OOO	Visible emissions of fugitive dust



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
	(40 CFR 60.670 - 60.676) [In accordance with 40 CFR 60.670(a)(1), this emissions unit is a fixed nonmetallic mineral processing plant when processing limestone. When limestone is processed, all operations are subject to the emissions limitations specified in this section except for truck dumping of nonmetallic minerals into the feed hopper per 40 CFR 60.672(d). This rule is applicable only when limestone is processed.]	discharging from the screeners, hopper, transfer points or conveyors shall not exceed 7% opacity. [40 CFR 60.672(b)] Visible emissions of fugitive dust discharging from the uncontrolled crusher shall not exceed 12% opacity. [40 CFR 60.672(b)] See b)(2)e. and g. below.
k.	40 CFR 60.1-19 (40 CFR 60.670(f))	Table 1 of Subpart OOO of 40 CFR Part 60 – Exceptions to Applicability of Subpart A to Subpart OOO, specifies the provisions of Subpart A that do not apply to owners and operators of affected facilities subject to this subpart or that apply with certain exceptions.

(2) Additional Terms and Conditions

- a. This Best Available Technology (BAT) emission limit applies until U.S. EPA approves Ohio Administrative Code (OAC) paragraph 3745-31-05(A)(3)(a) (the less than 10 tons per year BAT exemption) into the Ohio State Implementation Plan (SIP).
- b. These requirements apply once U.S. EPA approves OAC paragraph 3745-31-05(A)(3)(a)(ii) (the less than 10 tons per year BAT exemption) as part of the Ohio SIP.
- c. This emissions unit is exempt from the visible emissions limitations for fugitive dust, specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e), because the emissions unit is not located within areas identified in "Appendix A" of OAC rule 3745-17-08.
- d. This emissions unit is not located within areas identified in "Appendix A" of OAC rule 3745-17-08, therefore, the requirements of OAC rule 3745-17-08(B), which requires the installation of reasonably available control measures to prevent fugitive dust, do not apply to this emissions unit pursuant to OAC rule 3745-17-08(A)(1).
- e. In accordance with 40 CFR, Part 60 Subpart OOO, the following pieces of equipment are affected facilities constructed, modified, or reconstructed after April 22, 2008 when processing limestone and when co-located at an affected



facility as defined in 40 CFR 60.670. In accordance with 40 CFR Part 60 Subpart Y, the following pieces of equipment are affected facilities constructed, modified, or reconstructed after May 27, 2009 when processing coal. The material handling operations that are covered by this permit and subject to the above-mentioned requirements are listed below:

- Load-in of crusher
- Primary crusher
- Sizing screens (2)
- Load-in of hopper
- Conveyor transfer points (13)

- f. See 40 CFR Part 60, Subpart Y [40 CFR 60.250-258].
- g. See 40 CFR Part 60, Subpart OOO [40 CFR 60.670-676].

c) Operational Restrictions

- (1) The permittee has requested a federally enforceable limitation on coal throughput rate for the purposes of limiting potential to emit to avoid PSD requirements for PE. Therefore, the maximum throughput rate of coal shall not exceed 440,000 tons as a rolling, 12-month summation. This emissions unit has been in operation for more than 12 months and, as such, the permittee has existing records to generate the rolling, 12-month summation of the emissions, upon issuance of this permit.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain monthly records of the following information:
 - a. the coal, limestone and brick throughput rate for each month;
 - b. the rolling, 12-month summation of the coal throughput rate; and
 - c. the annual throughput rate limitation for limestone, coal and brick (combined).
- (2) Except as otherwise provided in this section, for material handling operations that are not adequately enclosed, the permittee shall perform inspections of such operations in accordance with the following minimum frequencies:

<u>Material handling operation(s)</u>	<u>Minimum inspection frequency</u>
Load-in to crusher	Daily
Primary crusher	Daily
Sizing screens (2)	Daily
Load-in to hopper	Daily
Conveyor transfer points (13)	Daily

- (3) The above-mentioned inspections shall be performed during representative, normal operating conditions.

For material handling operations, the permittee shall maintain records of the following information:



- a. the date and reason any required inspection was not performed;
- b. the date of each inspection where it was determined by the permittee that it was necessary to 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.

The information in d)(3)d. shall be kept separately for each material handling operation identified above, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

- (4) The permittee shall maintain monthly records of the throughput of all limestone, coal and brick (combined) processed in this emissions unit.
- (5) See 40 CFR Part 60, Subpart Y [40 CFR 60.250-258].
- (6) See 40 CFR Part 60, Subpart OOO [40 CFR 60.670-676].

e) Reporting Requirements

- (1) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.
- (2) The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. all exceedances of the rolling, 12-month coal throughput rate limitation;
 - b. any exceedance of the annual throughput rate limitation for limestone, coal and brick (combined);
 - c. 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
 - d. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.

The quarterly deviation (excursion) reports shall be submitted in accordance with the reporting requirements of the Standard Terms and Conditions of this permit.

- (3) See 40 CFR Part 60, Subpart Y [40 CFR 60.250-258].
- (4) See 40 CFR Part 60, Subpart OOO [40 CFR 60.670-676].



f) Testing Requirements

(1) Compliance with the emissions limitations and/or control requirements specified in b)(1) of these terms and conditions shall be determined in accordance with the following methods:

a. Emissions Limitation:
 PE shall not exceed 22.31 tons based on a rolling, 12-month summation.

Applicable Compliance Method:

Compliance with the rolling, 12-month limitation for PE shall be demonstrated by the following one-time calculations based on the emission factors in AP-42 Section 13.2.4 (11/06) for crusher load-in and the emission factors in the FIRE database (9/04) for coal crushing, screening, and conveyor transfer points and a maximum annual throughput of 440,000 tons per year:

Crusher and hopper load-in:

$$E = k \times (0.0032) \times [(U/5)^{1.3}/(M/2)^{1.4}]$$

Where:

- E = particulate emissions factor expressed in pounds per ton
- k = particle size multiplier for TSP (dimensionless) = 0.74
- U = mean wind speed expressed in miles per hour (MPH) = 9.9
- M = material moisture content (%) = 2.1

Therefore, E = 0.0054 lb PE/ton

$$\begin{aligned} PE &= [(\# \text{ load-in points})(\text{maximum annual throughput})(\text{load-in EF})]/2,000 \text{ lbs/ton} \\ &= [(2)(440,000 \text{ tons})(0.0054 \text{ lb PE/ton})]/2,000 \text{ lb/ton} \\ &= 2.38 \text{ tons per year uncontrolled PE} \end{aligned}$$

Assume 50% control efficiency for watering at crusher

$$2.38 \text{ tons per year} \times (1 - 0.50) = 1.19 \text{ tons per year controlled PE}$$

Crushing, screening, and conveyor transfer points:

$$PE = [(\# \text{ of crushers, screens and conveyor transfer points})(\text{maximum annual throughput})(PE \text{ EF})]/2,000 \text{ lbs/ton}$$

$$\begin{aligned} PE &= [(16)(0.02 \text{ lb/ton})(440,000 \text{ tons per year}) \times 1 \text{ ton}/2,000 \text{ lbs}] \\ &= 70.40 \text{ tons per year uncontrolled PE} \end{aligned}$$

Assume 70% control efficiency for water sprays

$$70.40 \text{ tons per year} \times (1 - 0.70) = 21.12 \text{ tons per year controlled PE}$$



Totals:

1.19 + 21.12 = 22.31 tons per year PE

b. Emissions Limitations:

PM₁₀ emissions shall not exceed 0.57 ton per month averaged over a twelve-month rolling period.

PM₁₀ emissions shall not exceed 6.89 tons per year

Applicable Compliance Method:

Compliance with the emissions limitations for PM₁₀ shall be demonstrated by the following one-time calculations based on the emission factors in AP-42 Section 13.2.4 (11/06) for crusher load-in and the emission factors in the FIRE database (9/04) for crushing, screening, and conveyor transfer points and a maximum annual throughput of 440,000 tons per year:

Crusher and hopper load-in:

$$E = k \times (0.0032) \times [(U/5)^{1.3}/(M/2)^{1.4}]$$

Where:

E = PM₁₀ emission factor expressed in pounds per ton

k = particle size multiplier for PM₁₀ (dimensionless) = 0.35

U = mean wind speed expressed in miles per hour (MPH) = 9.9

M = material moisture content (%) = 2.1

Therefore, E = 0.0025 lb PM₁₀/ton

$$\begin{aligned} \text{PM}_{10} &= [(\# \text{ load-in points})(\text{maximum annual throughput})(\text{load-in EF})]/2,000 \text{ lbs/ton} \\ &= [(2)(440,000 \text{ tons})(0.0025 \text{ lb PM}_{10}/\text{ton})]/2,000 \text{ lb/ton} \\ &= 1.10 \text{ tons per year uncontrolled PM}_{10} \end{aligned}$$

Assume 50% control efficiency for watering at crusher

$$1.10 \text{ ton per year} \times (1 - 0.50) = 0.55 \text{ ton per year controlled PM}_{10}$$

Crushing, screening, and conveyor transfer points:

$$\text{PM}_{10} = [(\# \text{ of crushers, screens and conveyor transfer points})(\text{maximum annual throughput})(\text{PM}_{10} \text{ EF})]/2,000 \text{ lbs/ton}$$

$$\begin{aligned} \text{PM}_{10} &= [(16)(0.006 \text{ lb/ton})(440,000 \text{ tons per year}) \times 1 \text{ ton}/2,000 \text{ lbs} \\ &= 21.12 \text{ tons per year uncontrolled PM}_{10} \end{aligned}$$

Assume 70% control efficiency for water sprays

$$21.12 \text{ tons per year} \times (1 - 0.70) = 6.34 \text{ tons per year controlled PM}_{10}$$



Totals:

$$0.55 + 6.34 = 6.89 \text{ tons per year PM}_{10} \div 12 \text{ months} = 0.57 \text{ tons per month}$$

c. Emissions Limitations:

PM_{2.5} emissions shall not exceed 0.54 ton per month averaged over a twelve-month rolling period.

PM_{2.5} emissions shall not exceed 6.43 tons per year.

Applicable Compliance Method:

Compliance with the emissions limitations for PM_{2.5} shall be demonstrated by the following one-time calculations based on the emission factors in AP-42 Section 13.2.4 (11/06) for crusher load-in and the emission factors in the FIRE database (9/04) for crushing, screening, and conveyor transfer points and a maximum annual throughput of 440,000 tons per year:

Crusher load-in:

$$E = k \times (0.0032) \times [(U/5)^{1.3} / (M/2)^{1.4}]$$

Where:

E = PM_{2.5} emission factor expressed in pounds per ton

k = particle size multiplier for PM_{2.5} (dimensionless) = 0.053

U = mean wind speed expressed in miles per hour (MPH) = 9.9

M = material moisture content (%) = 2.1

Therefore, E = 0.0004 lb PM_{2.5}/ton

$$\begin{aligned} \text{PM}_{10} &= [(\# \text{ load-in points})(\text{maximum annual throughput})(\text{load-in EF})] / 2,000 \text{ lbs/ton} \\ &= [(2)(440,000 \text{ tons})(0.0004 \text{ lb PM}_{2.5}/\text{ton})] / 2,000 \text{ lb/ton} \\ &= 0.18 \text{ ton per year uncontrolled PM}_{2.5} \end{aligned}$$

Assume 50% control efficiency for watering at crusher

$$0.18 \text{ ton per year} \times (1 - 0.50) = 0.09 \text{ ton per year controlled PM}_{2.5}$$

Crushing, screening, and conveyor transfer points:

$$\text{PM}_{2.5} = [(\# \text{ of crushers, screens and conveyor transfer points})(\text{maximum annual throughput})(\text{PM}_{2.5} \text{ EF})] / 2,000 \text{ lbs/ton}$$

$$\begin{aligned} \text{PM}_{2.5} &= [(16)(0.006 \text{ lb/ton})(440,000 \text{ tons per year}) \times 1 \text{ ton} / 2,000 \text{ lbs} \\ &= 21.12 \text{ tons per year uncontrolled PM}_{2.5} \end{aligned}$$

Assume 70% control efficiency for water sprays

$$21.12 \text{ tons per year} \times (1 - 0.70) = 6.34 \text{ tons per year controlled PM}_{2.5}$$



Totals:

0.09 + 6.34 = 6.43 tons per year PM_{2.5}

- d. Emissions Limitation:
No discharge into the atmosphere from the affected facility of any gases which exhibit 10 percent opacity or greater when coal is processed.

Applicable Compliance Method:

Visible particulate emissions shall be determined according to USEPA Method 9. See f)(2).

- e. Emissions Limitation:
Visible emissions of fugitive dust discharging from the screeners, hopper, transfer points or conveyors shall not exceed 7% opacity when limestone is processed.

Applicable Compliance Method:

Visible particulate emissions shall be determined according to USEPA Method 9. See f)(2).

- f. Emissions Limitation:
Visible emissions of fugitive dust discharging from the uncontrolled crusher shall not exceed 12% opacity when limestone is processed.

Applicable Compliance Method:

Visible particulate emissions shall be determined according to USEPA Method 9. See f)(2).

- (2) Performance testing shall be conducted as required in 40 CFR Part 60 Subpart OOO pursuant to 40 CFR 60.670 when processing limestone, and 40 CFR Part 60 Subpart Y pursuant to 40 CFR 60.255 when processing coal. 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 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup of such facility.

- b. When limestone is processed, the emissions testing shall be conducted to demonstrate compliance with the visible emission limitations for fugitive emissions for each crusher, screening operation, transfer point, and conveyor as specified in b)(2)c. of this permit, and in accordance with the requirements of 40 CFR Part 60.675. When coal is processed, the emissions testing shall be conducted to demonstrate compliance with the visible emission limitations for fugitive emissions for each affected facility as specified in b)(2)b. of this permit, and in accordance with the requirements of 40 CFR Part 60.255(b), unless the permittee opts to demonstrate compliance with the alternative requirements in 40 CFR 60.255(f) or (g).



- c. The following test method(s) shall be employed to demonstrate compliance with the allowable emission rate(s): for visible emissions, Method 9 of 40 CFR 60, Appendix A.
 - d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Southeast District Office.
 - e. No later than seven (7) days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Southeast District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA, Southeast District Office's refusal to accept the results of the emissions test(s).
 - f. Personnel from the Ohio EPA, Southeast District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.
 - g. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Southeast District Office within 30 days following completion of test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, Southeast District Office.
- g) Miscellaneous Requirements
- (1) None.