



John R. Kasich, Governor
Mary Taylor, Lt. Governor
Craig W. Butler, Director

10/8/2014

Certified Mail

Mr. John Miller
CEMEX Construction Materials Atlantic, LLC
3250 Linebaugh Rd.
Xenia, OH 45385

Facility ID: 0829700165
Permit Number: P0092036
County: Greene

RE: DRAFT AIR POLLUTION TITLE V PERMIT
Permit Type: Renewal

Dear Permit Holder:

A draft of the OAC Chapter 3745-77 Title V permit for the referenced facility has been issued. The purpose of this draft is to solicit public comments. A public notice will appear in the Ohio Environmental Protection Agency (EPA) Weekly Review and the local newspaper, Xenia Daily Gazette. A copy of the public notice, the Statement of Basis, and the draft permit are enclosed. This permit can be accessed electronically 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. Comments will be accepted as a marked-up copy of the draft permit or in narrative format. Any comments must be sent to the following:

Andrew Hall
Permit Review/Development Section
Ohio EPA, DAPC
50 West Town Street, Suite 700
P.O. Box 1049
Columbus, Ohio 43216-1049

and Regional Air Pollution Control Agency
117 South Main Street
Dayton, OH 45422-1280

Comments and/or a request for a public hearing will be accepted within 30 days of the date the notice is published in the newspaper. You will be notified if a public hearing is scheduled. A decision on processing the Title V permit will be made after consideration of comments received and oral testimony if a public hearing is conducted. You will then be provided with a Preliminary Proposed Title V permit and another opportunity to comment prior to the 45-day Proposed Title V permit submittal to U.S. EPA Region 5. The permit will be issued final after U.S. EPA review is completed and no objections to the final issuance have been received. If you have any questions, please contact Regional Air Pollution Control Agency at (937)225-4435.

Sincerely,

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

Cc: U.S. EPA Region 5 - *Via E-Mail Notification*
RAPCA; Indiana; Kentucky

PUBLIC NOTICE
10/8/2014 Issuance of Draft Air Pollution Title V Permit

CEMEX Construction Materials Atlantic, LLC
3250 Linebaugh Road,
Xenia, OH 45385
Greene County

FACILITY DESC.: Cement Manufacturing

PERMIT #: P0092036

PERMIT TYPE: Renewal

PERMIT DESC: Title V permit renewal for a portland cement manufacturing facility.

The Director of the Ohio Environmental Protection Agency issued the draft permit above. The permit and complete instructions for requesting information or submitting comments may be obtained at: <http://epa.ohio.gov/dapc/permitsonline.aspx> by entering the permit # or: Andrew Weisman, Regional Air Pollution Control Agency, 117 South Main Street, Dayton, OH 45422-1280. Ph: (937)225-4435



Statement of Basis For Air Pollution Title V Permit

Facility ID:	0829700165
Facility Name:	CEMEX Construction Materials Atlantic, LLC
Facility Description:	Hydraulic cement manufacturing
Facility Address:	3250 Linebaugh Road, Xenia, OH 45385
Permit #:	P0092036, Renewal

This facility is subject to Title V because it is major for:

- Lead
 Sulfur Dioxide
 Carbon Monoxide
 Volatile Organic Compounds
 Nitrogen Oxides
 Particulate Matter ≤ 10 microns
 Single Hazardous Air Pollutant
 Combined Hazardous Air Pollutants
 Maximum Available Control Technology Standard(s)
 GHG
 Title IV

A. Standard Terms and Conditions

Has each insignificant emissions unit been reviewed to confirm it meets the definition in OAC rule 3745-77-01(U)?	YES
Were there any "common control" issues associated with this facility? If yes, provide a summary of those issues and explain how the DAPC decided to resolve them.	No
Please identify the affected unit(s) and associated PTI, if applicable, along with a brief description of any changes to the permit document that qualify as a minor permit modification per OAC rule 3745-77-08(C)(1)	N/A
Please identify the affected unit(s) and associated PTI, if applicable, along with a brief description of any changes to the permit document that qualify as a significant permit modification per OAC rule 3745-77-08(C)(3)	N/A



Please identify the affected unit(s) and associated PTI, if applicable, along with a brief description of any changes to the permit document that qualify as a reopening per OAC rule 3745-77-08(D)	N/A
Please identify the affected unit(s) and associated PTI, if applicable, along with a brief description of any changes to the permit document resulting from a renewal per OAC rule 3745-77-08(E)	N/A
Please identify the affected unit(s) and pollutant(s) for which a Compliance Assurance Monitoring (CAM) Plan is required per 40 CFR 64. Provide more emissions unit specific detail in Section C.	Emissions Units P003, P012, P013, P902, P904, P907, P911, P912, P916, P918, P932 and P933 vent to baghouses to control particulate emissions.

B. Facility-Wide Terms and Conditions

Term and Condition (paragraph)	Basis		Comments
	SIP (3745-)	Other	
B.1			
B.2		40 CFR Part 63 Subpart LLL	Final requirements of the rule promulgated on December 20, 2006 that are effective until September 9, 2015
B.3		40 CFR Part 63, Subpart LLL	Final Rules promulgated on September 9, 2010, January 18, 2011, and February 12, 2013. That become effective on and after September 9, 2015:
B.4			Identification of Insignificant Emissions Units.



C. Emissions Unit Terms and Conditions

Key: EU = emissions unit ID ND = negative declaration (i.e., term that indicates that a particular rule(s) is (are) not applicable to a specific emissions unit) OR = operational restriction M = monitoring requirements ENF = did noncompliance issues drive the monitoring requirements? R = record keeping requirements Rp = reporting requirements ET = emission testing requirements (not including compliance method terms) St = streamlining term used to replace a PTI monitoring, record keeping, or reporting requirement with an equivalent or more stringent requirement Misc = miscellaneous requirements													
EU(s)	Limitation	Basis		ND	OR	M	ENF	R	Rp	ET	St	Misc	Comments
		SIP (3745-)	Other										
F106	PM10 - 18.6 tons /year	31-05 (A)(3)		N	N	N	N	N	N	N	N	N	M, R, Rp, ET – Unpaved surfaces, emissions limitations based on total of 300,000 vehicle miles travelled combined for all vehicles.
F106	Particulate 62.9 tons /year	31-05 (A)(3)		N	N	N	N	N	N	N	N	N	M, R, Rp, ET – Unpaved surfaces, emissions limitations based on total of 300,000 vehicle miles travelled combined for all vehicles.
F107	PM10 – 12.7 tons /year	31-05 (A)(3)		N	N	N	N	N	N	N	N	N	M, R, Rp, ET – Paved surfaces, emissions limitations based on total of 32,500 vehicle miles travelled combined for all vehicles.
F107	Particulate 65.0 tons /year	31-05 (A)(3)		N	N	N	N	N	N	N	N	N	M, R, Rp, ET – Paved surfaces, emissions limitations based on total of 32,500 vehicle miles travelled combined for all vehicles.
F106 F107	Best available control measures	31-05 (A)(3)		N	N	Y	N	Y	Y	Y	N	N	ET- Visible emissions testing according Reference Method 22 and OAC rule 3745-17-03(B)(4).
F106	No visible particulate emissions except for 3 minutes during any 60-minute period.	31-05 (A)(3)		N	N	Y	N	Y	Y	Y	N	N	ET- Visible emissions testing according Reference Method 22 and OAC rule 3745-17-03(B)(4).
F107	No visible particulate emissions except for one minute during any 60-minute period.	31-05 (A)(3)		N	N	Y	N	Y	Y	Y	N	N	ET- Visible emissions testing according Reference Method 22 and OAC rule 3745-17-03(B)(4).
F106 F107 F108		17-07(B)		Y	N	N	N	N	N	N	N	N	ND -emissions units not located in an "Appendix A" area as indicated in OAC rule 3745-17-08. Therefore, the emissions units are not subject to the RACM requirements established in OAC rule 3745-



P003 P014 P901 P902 P904 P906 P907 P911 P912 P913 P914 P915 P918 P919 P925 P932 P933													17-07(B).
F106 F107 F108 P003 P014 P901 P902 P904 P906 P907 P911 P912 P913 P914 P915 P918 P919 P925 P932 P933		17-08(B)		Y	N	N	N	N	N	N	N	N	ND -emissions units not located in an "Appendix A" area as indicated in OAC rule 3745-17-08. Therefore, the emissions units are not subject to the RACM requirements established in OAC rule 3745-17.
P003	3.11 pounds NOx per ton of clinker as a rolling 30-day average.	31-05(D)		N	N	Y	Y	Y	Y	Y	N	Y	M – NOx continuous emissions monitors, kiln stack and alkali bypass. ENF – Emissions limit established according to United States of America and the State of Ohio v. CEMEX, Inc. and CEMEX Construction Materials Atlantic, LLC, (Civil Action No. 3:11CV00037), ET – Annual relative accuracy testing for NOx continuous emissions



													monitors. Misc- Emissions limitation is based on a 30-day rolling average.
P003	1.10 pounds SO2 per ton of clinker as a rolling 30 day average.	31-05(D)		N	N	Y	Y	Y	Y	Y	N	Y	M – SO2 continuous emissions monitors, kiln stack and alkali bypass. ENF – Emissions limit established according to United States of America and the State of Ohio v. CEMEX, Inc. and CEMEX Construction Materials Atlantic, LLC, (Civil Action No. 3:11CV00037), ET – Annual relative accuracy testing for SO2 continuous emissions monitors Misc- Emissions limitation is based on a 30-day rolling average.
P003 P902 P904 P911 P912 P913 P914 P915 P916 P918 P919 P932 P933		17-11(B)		Y	N	N	N	N	N	N	N	N	ND - The particulate emissions limitations established according to this rule are less stringent than the emissions limitations established according to 40 CFR Part 63, Subpart LLL or OAC rule 3745-31-05(A)(3).
P003 P901 P902 P904 P906	Visible particulate emissions shall not exceed 20 percent opacity for any stack	17-07(A)		N	N	Y	N	Y	Y	Y	N	N	ET- Visible emissions testing according Reference Method 9 and OAC rule 3745-17-03(B)(1).
P014 P907 P911 P912 P913 P914 P915 P916 P918 P919	Visible particulate emissions shall not exceed 20 percent opacity for any stack	17-07(A)		N	N	Y	N	Y	Y	Y	N	N	ND – The visible particulate emissions limitations established according to this rule are less stringent than the emissions limitations established according to 40 CFR Part 63, Subpart LLL or OAC rule 3745-31-05(A)(3).



P932 P933													
P003	9.0 pounds SO2 per ton of clinker	18-35		Y	N	N	N	N	N	N	N	N	ND – The SO2 emissions limitation established according to this rule is less stringent than the SO2 emissions limitation established according to OAC rule 3745-31-05(D).
P003	Low NOx burner	14-11		N	Y	Y	N	Y	Y	N	N	N	OR – Use low NOx burner or other alternative NOx control technology from May 1 through September 30 each year.
P003	0.30 lb particulate per ton of kiln feed		40 CFR Part 63, Subpart LLL	N	N	Y	N	Y	Y	Y	N	Y	ET – Particulate emissions testing on 30 month schedule according to EPA Reference Method 5. Misc – Emissions limitation effective until September 9, 2015.
P003	Dioxin/furan 0.20 nanogram per dry standard cubic meter corrected to seven percent oxygen		40 CFR Part 63, Subpart LLL	N	N	Y	N	Y	Y	Y	N	Y	ET – Dioxin/Furan emissions testing on 30 month schedule according to EPA Reference Method 23.
P003	Visible particulate emissions not to exceed 20 percent opacity		40 CFR Part 63, Subpart LLL, CAM	N	N	Y	N	Y	Y	Y	N	Y	ET – Continuous opacity monitoring and visible particulate emissions testing on 60 month schedule according to EPA Reference Method 9. Misc – Emissions limitation effective until September 9, 2015.
P003	0.07 lb particulate per ton of clinker		40 CFR Part 63, Subpart LLL	N	N	Y	N	Y	Y	Y	N	Y	ET – Continuous particulate emissions monitoring or continuous parameter monitoring system and emissions testing according to EPA Reference Method 5 on a recurring 12-month basis. Misc – Emissions limitation effective September 9, 2015 and after.
P003	Mercury 55 pounds/million tons clinker		40 CFR Part 63, Subpart LLL	N	N	Y	N	Y	Y	Y	N	Y	ET – Mercury CEMS or sorbent trap monitoring system. Misc – Emissions limitation effective September 9, 2015 and after. 30-day rolling average
P003	Total hydrocarbon 24 parts per		40 CFR Part 63, Subpart	N	N	Y	N	Y	Y	Y	N	Y	ET – Hydrocarbon CEMS. Misc – Alternate limit 12 ppmv organic HAP Emissions limitation effective September 9, 2015 and after.



	million dry		LLL										30-day rolling average
P003	Hydrogen chloride 3 parts per million dry		40 CFR Part 63, Subpart LLL	N	N	Y	N	Y	Y	Y	N	Y	ET – hydrogen chloride CEMS. Misc – Emissions limitation effective September 9, 2015 and after. 30-day rolling average
P014 P907 P911 P912 P913 P914 P915 P916 P918 P919 P925 P932 P933	Visible particulate emissions not to exceed 10 opacity		40 CFR Part 63, Subpart LLL, CAM	N	N	Y	N	Y	Y	Y	N	N	ET – daily visible emissions checks and visible particulate emissions testing on 60 month schedule according to EPA Reference Method 9 until September 9, 2015. After September 9, 2015 the monthly Reference Method 22 checks according to 40 CFR Part 63.1350(f).
P014	Particulate 0.03 grain/dry standard cubic foot	31-05 (A)(3) PTI 08-2136		N	N	Y	N	Y	Y	Y	N	N	ET- If requested compliance will be demonstrated according to OAC rule 3745-17-03(B)(10) and EPA Reference Method 5.
P014	Particulate 40.8 lbs/day; 7.4 tons/year	31-05 (A)(3) PTI 08-2136		N	N	Y	N	Y	Y	N	N	Y	Misc – Emissions limitation based on 0.03 grain per dry standard cubic foot and the exhaust flow rate.
P901	Particulate 79.3 pounds/hour	17-11(B)		N	N	N	N	N	N	Y	N	N	ET – If requested, compliance will be demonstrated by emissions testing according to EPA Reference Method 5.
P902	Particulate 0.03 grain/dry standard cubic foot	31-05 (A)(3) PTI 08-834		N	N	Y	N	Y	Y	Y	N	N	ET- If requested compliance will be demonstrated according to OAC rule 3745-17-03(B)(10) and EPA Reference Method 5.
P902	Particulate; 23.64 tons/year	31-05 (A)(3) PTI 08-834		N	N	Y	N	Y	Y	N	N	Y	Misc. – Compliance with the annual emissions limitation is based on annual production rate and Ohio EPA reasonably achievable control measure emission factors.
P904	0.10 lb particulate		40 CFR Part 63,	N	N	Y	N	Y	Y	Y	N	Y	ET – Particulate emissions testing on 30 month schedule according to EPA Reference Method 5.



	per ton of kiln feed		Subpart LLL										Misc – Emissions limitation effective until September 9, 2015.
P904	Visible particulate emissions not to exceed 10 opacity		40 CFR Part 63, Subpart LLL, CAM	N	N	Y	N	Y	Y	Y	N	Y	M – Continuous opacity monitor ET – Continuous opacity monitoring system and visible particulate emissions testing on 60 month schedule according to EPA Reference Method 9. Misc – Emissions limitation effective until September 9, 2015.
P904	0.07 lb particulate per ton of clinker		40 CFR Part 63, Subpart LLL	N	N	Y	N	Y	Y	Y	N	Y	ET – Continuous parameter monitoring system and particulate emissions testing according to EPA Reference Method 5 on a recurring 12-month basis. Misc – Emissions limitation effective September 9, 2015 and after.
P906	Particulate 25.2 pounds/hour	17-11(B)		N	N	N	N	N	N	Y	N	N	ET – If requested, compliance will be demonstrated by emissions testing according to EPA Reference Method 5.
P906	Visible particulate emissions shall not exceed 20 percent opacity		40 CFR Part 60 Subpart Y	N	N	Y	N	Y	Y	Y	N	N	ET- Visible emissions testing according Reference Method 9 and OAC rule 3745-17-03(B)(1).
P907	Particulate 55.4 pounds/hour	17-11(B)		N	N	N	N	N	N	Y	N	N	ET – If requested, compliance will be demonstrated by emissions testing according to EPA Reference Method 5.
P915	Particulate 0.02 grain/dry standard cubic foot	31-05 (A)(3) and (A)(3)(b) PTI P0115611		N	N	Y	N	Y	Y	Y	N	Y	ET- If requested compliance will be demonstrated according to OAC rule 3745-17-03(B)(10) and EPA Reference Method 5. Misc – Requirements according to OAC rule 3745-31-05(A)(3) once the December 1, 2006 SIP revisions are approved by U.S. EPA.
P911 P912 P913 P914 P916 P918 P919	Particulate 0.02 grain/dry standard cubic foot	31-05 (A)(3) PTI 08-3072		N	N	Y	N	Y	Y	Y	N	N	ET- If requested compliance will be demonstrated according to OAC rule 3745-17-03(B)(10) and EPA Reference Method 5.
P916	Particulate 26.2 lbs/	31-05 (A)(3)		N	Y	Y	N	Y	Y	Y	N	N	OR – Production of cement shall not exceed 1,105,104 tons on a rolling 365 day basis.



	hour; 629 lbs /day; 114.8 tons/year	PTI 08-3072											ET- If requested compliance will be demonstrated according to OAC rule 3745-17-03(B)(10) and EPA Reference Method 5.
P916	Stack Visible particulate emissions not to exceed 10 percent opacity	31-05 (A)(3) PTI 08-3072		N	N	Y	N	Y	Y	Y	N	N	ET- If requested compliance will be demonstrated according to OAC rule 3745-17-03(B)(1) and EPA Reference Method 9.
P911 P912 P913 P914 P918 P919	Stack Visible particulate emissions not to exceed 5 percent opacity	31-05 (A)(3) PTI 08-3072		N	N	Y	N	Y	Y	Y	N	N	ET- If requested compliance will be demonstrated according to OAC rule 3745-17-03(B)(1) and EPA Reference Method 9.
P911 P912 P913 P914 P918 P919	Fugitive particulate emissions not to exceed 5 percent opacity	31-05 (A)(3) PTI 08-3072		N	N	Y	N	Y	Y	Y	N	N	ET- If requested compliance will be demonstrated according to OAC rule 3745-17-03(B)(1) and EPA Reference Method 9.
P911	Particulate 0.7 lb/ hour; 16.8 lbs/day; 3.1 tons/year	31-05 (A)(3) PTI 08-3072		N	Y	Y	N	Y	Y	Y	N	N	OR – Production of cement shall not exceed 1,105,104 tons on a rolling 365 day basis. ET- If requested compliance will be demonstrated according to OAC rule 3745-17-03(B)(10) and EPA Reference Method 5.
P912	Particulate 3.95 lbs/ hour; 94.9 lbs/day; 17.3 tons/year	31-05 (A)(3) PTI 08-3072		N	Y	Y	N	Y	Y	Y	N	N	OR – Production of cement shall not exceed 1,105,104 tons on a rolling 365 day basis. ET- If requested compliance will be demonstrated according to OAC rule 3745-17-03(B)(10) and EPA Reference Method 5.
P913	Particulate 3.0 lbs/hour; 72.0 lbs/day; 13.1 tons/year	31-05 (A)(3) PTI 08-3072		N	Y	Y	N	Y	Y	Y	N	N	OR – Production of cement shall not exceed 1,105,104 tons on a rolling 365 day basis. ET- If requested compliance will be demonstrated according to OAC rule 3745-17-03(B)(10) and EPA Reference Method 5.



P914	Particulate 3.16 lbs/ hour; 75.9 lbs /day; 13.9 tons/year	31-05 (A)(3) PTI 08- 3072		N	Y	Y	N	Y	Y	Y	N	N	OR – Production of cement shall not exceed 1,105,104 tons on a rolling 365 day basis. ET- If requested compliance will be demonstrated according to OAC rule 3745-17-03(B)(10) and EPA Reference Method 5.
P918	Particulate 1.60 lbs/ hour; 38.4 lbs /day; 7.0 tons/year	31-05 (A)(3) PTI 08- 3072		N	Y	Y	N	Y	Y	Y	N	N	OR – Production of cement shall not exceed 1,105,104 tons on a rolling 365 day basis. ET- If requested compliance will be demonstrated according to OAC rule 3745-17-03(B)(10) and EPA Reference Method 5.
P919	Particulate 1.4 lbs/ hour; 33.6 lbs /day; 6.13 tons/year	31-05 (A)(3) PTI 08- 3072		N	Y	Y	N	Y	Y	Y	N	N	OR – Production of cement shall not exceed 1,105,104 tons on a rolling 365 day basis. ET- If requested compliance will be demonstrated according to OAC rule 3745-17-03(B)(10) and EPA Reference Method 5.
P925	Particulate 3.63 pounds per hour	31-05 (A)(3) PTI 08- 04127		N	Y	Y	N	Y	Y	N	N	N	OR – Maximum throughput not to exceed 303,779 tons on a rolling 12-month basis.
P925	Particulate 4.4 tons on a rolling 12- month basis	31-05(D) PTI 08- 04127		N	Y	Y	N	Y	Y	N	N	N	OR – Maximum throughput not to exceed 303,779 tons on a rolling 12-month basis.
P932 P933	Particulate 0.01 grain/ dry standard cubic foot	31-05 (A)(3) PTI 08- 4737		N	N	Y	N	Y	Y	Y	N	N	ET- If requested compliance will be demonstrated according to OAC rule 3745-17-03(B)(10) and EPA Reference Method 5.
P932	Particulate 1.76 lbs/ hour; 7.51 tons/year	31-05 (A)(3) PTI 08- 4737		N	N	Y	N	Y	Y	Y	N	N	ET- If requested compliance will be demonstrated according to OAC rule 3745-17-03(B)(10) and EPA Reference Method 5.
P933	Particulate 1.31 lbs/ hour; 5.71 tons/year	31-05 (A)(3) PTI 08- 4737		N	N	Y	N	Y	Y	Y	N	N	ET- If requested compliance will be demonstrated according to OAC rule 3745-17-03(B)(10) and EPA Reference Method 5.



DRAFT

**Division of Air Pollution Control
Title V Permit
for
CEMEX Construction Materials Atlantic, LLC**

Facility ID:	0829700165
Permit Number:	P0092036
Permit Type:	Renewal
Issued:	10/8/2014
Effective:	To be entered upon final issuance
Expiration:	To be entered upon final issuance



Division of Air Pollution Control
Title V Permit
for
CEMEX Construction Materials Atlantic, LLC

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Draft Title V Permit
CEMEX Construction Materials Atlantic, LLC
Permit Number: P0092036
Facility ID: 0829700165
Effective Date: To be entered upon final issuance

Authorization

Facility ID: 0829700165
Facility Description: cement, hydraulic
Application Number(s): A0023452, A0023453, A0035710, A0035858, A0035891, A0049334
Permit Number: P0092036
Permit Description: Title V permit renewal for a portland cement manufacturing facility.
Permit Type: Renewal
Issue Date: 10/8/2014
Effective Date: To be entered upon final issuance
Expiration Date: To be entered upon final issuance
Superseded Permit Number: P0092035

This document constitutes issuance of an OAC Chapter 3745-77 Title V permit to:

CEMEX Construction Materials Atlantic, LLC
3250 Linebaugh Road
Xenia, OH 45385

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

Regional Air Pollution Control Agency
117 South Main Street
Dayton, OH 45422-1280
(937)225-4435

The above named entity is hereby granted a Title V permit pursuant to Chapter 3745-77 of the Ohio Administrative Code. This permit and the authorization to operate the air contaminant sources (emissions units) at this facility shall expire at midnight on the expiration date shown above. You will be sent a notice approximately 18 months prior to the expiration date regarding the renewal of this permit. If you do not receive a notice, please contact the Regional Air Pollution Control Agency. If a renewal permit is not issued prior to the expiration date, the permittee may continue to operate pursuant to OAC rule 3745-77-08(E) and in accordance with the terms of this permit beyond the expiration date, if a timely renewal application is submitted. A renewal application will be considered timely if it is submitted no earlier than 18 months and no later than 6 months prior to the expiration date.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Craig W. Butler
Director



Draft Title V Permit
CEMEX Construction Materials Atlantic, LLC
Permit Number: P0092036
Facility ID: 0829700165
Effective Date: To be entered upon final issuance

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. 24., Reporting Requirements Related to Monitoring and Record Keeping Requirements of State-Only Enforceable Permit Terms and Conditions
 - (2) Standard Term and Condition A. 25., Records Retention Requirements for State-Only Enforceable Permit Terms and Conditions
 - (3) Standard Term and Condition A. 27., Scheduled Maintenance/Malfunction Reporting For State-Only Requirements
 - (4) Standard Term and Condition A. 29., Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations
 - (5) Standard Term and Condition A. 30.

(Authority for term: ORC 3704.036(A))

2. 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 (i.e., in section C. Emissions Unit Terms and Conditions of this Title V permit), 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.

(Authority for term: OAC rule 3745-77-07(A)(3)(b)(i))

- 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 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.

(Authority for term: OAC rule 3745-77-07(A)(3)(b)(ii))



c) The permittee shall submit required reports in the following manner:

- (1) All reporting required in accordance with OAC rule 3745-77-07(A)(3)(c) for deviations caused by malfunctions shall be submitted in the following manner:

Any malfunction, as defined in OAC rule 3745-15-06(B)(1), shall be promptly reported to the Ohio EPA in accordance with OAC rule 3745-15-06. In addition, to fulfill the OAC rule 3745-77-07(A)(3)(c) deviation reporting requirements for malfunctions, written reports that identify each malfunction that occurred during each calendar quarter (including each malfunction reported only verbally in accordance with OAC rule 3745-15-06) shall be submitted by January 31, April 30, July 31, and October 31 of each year in accordance with Standard Term and Condition A.2.c)(2) below; and each report shall cover the previous calendar quarter. An exceedance of the visible emission limitations specified in OAC rule 3745-17-07(A)(1) that is caused by a malfunction is not a violation and does not need to be reported as a deviation if the owner or operator of the affected air contaminant source or air pollution control equipment complies with the requirements of OAC rule 3745-17-07(A)(3)(c).

In accordance with OAC rule 3745-15-06, a malfunction reportable under OAC rule 3745-15-06(B) is a deviation of the federally enforceable permit requirements. Even though verbal notifications and written reports are required for malfunctions pursuant to OAC rule 3745-15-06, the written reports required pursuant to this term must be submitted quarterly to satisfy the prompt reporting provision of OAC rule 3745-77-07(A)(3)(c).

In identifying each deviation caused by a malfunction, the permittee shall specify the emission limitation(s) (or control requirement(s)) for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. For a specific malfunction, if this information has been provided in a written report that was submitted in accordance with OAC rule 3745-15-06, the permittee may simply reference that written report to identify the deviation. Nevertheless, all malfunctions, including those reported only verbally in accordance with OAC rule 3745-15-06, must be reported in writing on a quarterly basis.

Any submitted scheduled maintenancerequests, as referenced in OAC rule 3745-15-06(A)(1), that results in a deviation from a federally enforceable emission limitation (or control requirement) shall be reported in the same manner as described above for malfunctions.

(Authority for term: OAC rule 3745-77-07(A)(3)(c))

- (2) Except as may otherwise be provided in the terms and conditions for a specific emissions unit (i.e., in section C. Emissions Unit Terms and Conditions of this Title V permit or, in some cases, in section B. Facility-Wide Terms and Conditions of this Title V permit), all reporting required in accordance with OAC rule 3745-77-07(A)(3)(c) for deviations of the emission limitations, operational restrictions, and control device operating parameter limitations shall be submitted in the following manner:

Written reports of (a) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, (b) the



probable cause of such deviations, and (c) any corrective actions or preventive measures taken, shall be submitted promptly to the Regional Air Pollution Control Agency. Except as provided below, the written reports shall be submitted by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

In identifying each deviation, the permittee shall specify the emission limitation(s), operational restriction(s), and/or control device operating parameter limitation(s) for which the deviation occurred, describe each deviation, and provide the estimated magnitude and duration of each deviation.

These written deviation reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c) pertaining to the submission of monitoring reports every six months and to the prompt reporting of all deviations. Full compliance with OAC rule 3745-77-07(A)(3)(c) requires reporting of all other deviations of the federally enforceable requirements specified in the permit as required by such rule.

If an emissions unit has a deviation reporting requirement for a specific emission limitation, operational restriction, or control device operating parameter limitation that is not on a quarterly basis (e.g., within 30 days following the end of the calendar month, or within 30 or 45 days after the exceedance occurs), that deviation reporting requirement satisfies the reporting requirements specified in this Standard Term and Condition for that specific emission limitation, operational restriction, or control device parameter limitation. Following the provisions of that non-quarterly deviation reporting requirement will also satisfy (for the deviations so reported) the requirements of OAC rule 3745-77-07(A)(3)(c) pertaining to the submission of monitoring reports every six months and to the prompt reporting of all deviations, and additional quarterly deviation reports for that specific emission limitation, operational restriction, or control device parameter limitation are not required pursuant to this Standard Term and Condition.

See A.29 below if no deviations occurred during the quarter.

(Authority for term: OAC rule 3745-77-07(A)(3)(c))

- (3) All reporting required in accordance with the OAC rule 3745-77-07(A)(3)(c) for other deviations of the federally enforceable permit requirements which are not reported in accordance with Standard Term and Condition A.2)c)(2) above shall be submitted in the following manner:

Unless otherwise specified by rule, written reports that identify deviations of the following federally enforceable requirements contained in this permit; Standard Terms and Conditions: A.3, A.4, A.5, A.7.e), A.8, A.13, A.15, A.19, A.20, A.21, and A.23 of this Title V permit, as well as any deviations from the requirements in section C. Emissions Unit Terms and Conditions of this Title V permit, and any monitoring, record keeping, and reporting requirements, which are not reported in accordance with Standard Term and Condition A.2.c)(2) above shall be submitted to the Regional Air Pollution Control Agency by January 31 and July 31 of each year; and each report shall cover the previous six calendar months. Unless otherwise specified by rule, all other deviations from federally enforceable requirements identified in this permit shall be submitted annually as part of the annual compliance certification, including deviations of federally



enforceable requirements not specifically addressed by permit or rule for the insignificant activities or emissions levels (IEU) identified in section B. Facility-Wide Terms and Conditions of this Title V permit. Annual reporting of deviations is deemed adequate to meet the deviation reporting requirements for IEUs unless otherwise specified by permit or rule.

In identifying each deviation, the permittee shall specify the federally enforceable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation.

These semi-annual and annual written reports shall satisfy the reporting requirements of OAC rule 3745-77-07(A)(3)(c) for any deviations from the federally enforceable requirements contained in this permit that are not reported in accordance with Standard Term and Condition A.2.c)(2) above.

If no such deviations occurred during a six-month period, the permittee shall submit a semi-annual report which states that no such deviations occurred during that period.

(Authority for term: OAC rules 3745-77-07(A)(3)(c)(i) and (ii) and OAC rule 3745-77-07(A)(13)(b))

- (4) 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 (including any written malfunction reports required by OAC rule 3745-15-06 that are referenced in the deviation reports) are true, accurate, and complete." Signature by the Responsible Official may be represented by entry of the personal identification number (PIN) by the Responsible Official as part of the electronic submission process or by the scanned attestation document signed by the Responsible Official that is attached to the electronically submitted written report.

(Authority for term: OAC rule 3745-77-07(A)(3)(c)(iv))

- (5) Consistent with A.2.c.1. above, reports of any required monitoring and/or record keeping information required to be submitted to Ohio EPA shall be submitted to Regional Air Pollution Control Agency unless otherwise specified.

(Authority for term: OAC rule 3745-77-07(A)(3)(c))

3. Reporting of Any Exceedence of a Federally Enforceable Emission Limitation or Control Requirement Resulting From Scheduled Maintenance

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. Except as provided in OAC rule 3745-15-06(A)(3), any scheduled maintenance necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s). Any scheduled maintenance, as defined in OAC rule 3745-15-06(A)(1), that results in a deviation from a federally enforceable emission limitation (or control requirement) shall be reported in the same manner as described for malfunctions in Standard Term and Condition A.2.c)(1) above.

(Authority for term: OAC rule 3745-77-07(A)(3)(c))



4. Risk Management Plans

If applicable, the permittee shall 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"); and, pursuant to 40 C.F.R. 68.215(a), the permittee shall submit either of the following:

- a) a compliance plan for meeting the requirements of 40 C.F.R. Part 68 by the date specified in 40 C.F.R. 68.10(a) and OAC 3745-104-05(A); or
- b) as part of the compliance certification submitted under 40 C.F.R. 70.6(c)(5), a certification statement that the source is in compliance with all requirements of 40 C.F.R. Part 68 and OAC Chapter 3745-104, including the registration and submission of the risk management plan.

(Authority for term: OAC rule 3745-77-07(A)(4))

5. 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.

(Authority for term: OAC rule 3745-77-07(A)(5))

6. Severability Clause

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.

(Authority for term: OAC rule 3745-77-07(A)(6))

7. 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 reissuance, or modification, or for denial of a permit renewal application.
- 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 except as provided pursuant to A.16 below.
- c) This permit may be modified, reopened, revoked, or revoked and reissued, for cause, in accordance with A.11 below. 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, reopening 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.
- f) Except as otherwise indicated below, this Title V permit, or permit modification, is effective for five years from the original effective date specified in the permit. In the event that this facility becomes eligible for non-title V permits, this permit shall cease to be enforceable when:
 - (1) the permittee submits an approved facility-wide potential to emit analysis supporting a claim that the facility no longer meets the definition of a "major source" as defined in OAC rule 3745-77-01(W) based on the permanent shutdown and removal of one or more emissions units identified in this permit; or
 - (2) the permittee no longer meets the definition of a "major source" as defined in OAC rule 3745-77-01(W) based on obtaining restrictions on the facility-wide potential(s) to emit that are federally enforceable or legally and practically enforceable ; or
 - (3) a combination of (1) and (2) above.

The permittee shall continue to comply with all applicable OAC Chapter 3745-31 requirements for all regulated air contaminant sources once this permit ceases to be enforceable. The permittee shall comply with any residual requirements, such as quarterly deviation reports, semi-annual deviation reports, and annual compliance certifications covering the period during which this Title V permit was enforceable. All records relating to this permit must be maintained in accordance with law.

(Authority for term: OAC rule 3745-77-01(W), OAC rule 3745-77-07(A)(3)(b)(ii), OAC rule 3745-77(A)(7))

8. 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.

(Authority for term: OAC rule 3745-77-07(A)(8))

9. Marketable Permit Programs

No revision of this permit is required under any approved economic incentive, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in this permit.

(Authority for term: OAC rule 3745-77-07(A)(9))



10. Reasonably Anticipated Operating Scenarios

The permittee is hereby authorized to make changes among operating scenarios authorized in this permit without notice to the Ohio EPA, but, contemporaneous with making a change from one operating scenario to another, the permittee must record in a log at the permitted facility the scenario under which the permittee is operating. The permit shield provided in these standard terms and conditions shall apply to all operating scenarios authorized in this permit.

(Authority for term: OAC rule 3745-77-07(A)(10))

11. Reopening for Cause

This Title V permit will be reopened prior to its expiration date under the following conditions:

- a) Additional applicable requirements under the Act become applicable to one or more emissions units covered by this permit, and this permit has a remaining term of three or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to paragraph (E)(1) of OAC rule 3745-77-08.
- b) This permit is issued to an affected source under the acid rain program and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit, and shall not require a reopening of this permit.
- c) The Director of the Ohio EPA or the Administrator of the U.S. EPA determines that the federally applicable requirements in this permit are based on a material mistake, or that inaccurate statements were made in establishing the emissions standards or other terms and conditions of this permit related to such federally applicable requirements.
- d) The Administrator of the U.S. EPA or the Director of the Ohio EPA determines that this permit must be revised or revoked to assure compliance with the applicable requirements.

(Authority for term: OAC rules 3745-77-07(A)(12) and 3745-77-08(D))

12. Federal and State Enforceability

Only those terms and conditions designated in this permit as federally enforceable, that 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, the State, and citizens under the Act. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.

(Authority for term: OAC rule 3745-77-07(B))



13. Compliance Requirements

- a) Any document (including reports) required to be submitted and required by a federally applicable requirement in this Title V 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 paragraph (E) of OAC rule 3745-77-03.
 - (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 Regional Air Pollution Control Agency 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.
- d) Compliance certifications concerning the terms and conditions contained in this permit that are federally enforceable emission limitations, standards, or work practices, shall be submitted to the Director (the Regional Air Pollution Control Agency) and the Administrator of the U.S. EPA in the following manner and with the following content:
 - (1) Compliance certifications shall be submitted annually on a calendar year basis. The annual certification shall be submitted on or before April 30th of each year during the permit term.
 - (2) Compliance certifications shall include the following:
 - a. Identification of each term or condition that is the basis of the certification. The identification may include a statement by the Responsible Official that every term and condition that is federally enforceable has been reviewed, and such terms



and conditions with which there has been continuous compliance throughout the year are not separately identified.

- b. The permittee's current compliance status.
 - c. Whether compliance was continuous or intermittent consistent with A.13.d.2.a above.
 - d. The method(s) used for determining the compliance status of the source currently and over the required reporting period consistent with A.13.d.2.a above.
 - e. Such other facts as the Director of the Ohio EPA may require in the permit to determine the compliance status of the source.
- (3) Compliance certifications shall contain such additional requirements as may be specified pursuant to sections 114(a)(3) and 504(b) of the Act.

(Authority for term: OAC rules 3745-77-07(C)(1),(2),(4) and (5) and ORC section 3704.03(L))

14. Permit Shield

- a) Compliance with the terms and conditions of this permit (including terms and conditions established for alternate operating scenarios, emissions trading, and emissions averaging, but excluding terms and conditions for which the permit shield is expressly prohibited under OAC rule 3745-77-07) shall be deemed compliance with the applicable requirements identified and addressed in this permit as of the date of permit issuance.
- b) This permit shield provision shall apply to any requirement identified in this permit pursuant to OAC rule 3745-77-07(F)(2), as a requirement that does not apply to the source or to one or more emissions units within the source.

(Authority for term: OAC rule 3745-77-07(F))

15. Operational Flexibility

The permittee is authorized to make the changes identified in OAC rule 3745-77-07(H)(1)(a) to (H)(1)(c) within the permitted stationary source without obtaining a permit revision, if such change is not a modification under any provision of Title I of the Act [as defined in OAC rule 3745-77-01(JJ)], and does not result in an exceedance of the emissions allowed under this permit (whether expressed therein as a rate of emissions or in terms of total emissions), and the permittee provides the Administrator of the U.S. EPA and the Regional Air Pollution Control Agency with written notification within a minimum of seven days in advance of the proposed changes, unless the change is associated with, or in response to, emergency conditions. If less than seven days notice is provided because of a need to respond more quickly to such emergency conditions, the permittee shall provide notice to the Administrator of the U.S. EPA and the Regional Air Pollution Control Agency as soon as possible after learning of the need to make the change. The notification shall contain the items required under OAC rule 3745-77-07(H)(2)(d).

(Authority for term: OAC rules 3745-77-07(H)(1) and (2))



16. Emergencies

The permittee shall have an affirmative defense of emergency to an action brought for noncompliance with technology-based emission limitations if the conditions of OAC rule 3745-77-07(G)(3) are met. This emergency defense provision is in addition to any emergency or upset provision contained in any applicable requirement.

(Authority for term: OAC rule 3745-77-07(G))

17. Off-Permit Changes

The owner or operator of a Title V source may make any change in its operations or emissions at the source that is not specifically addressed or prohibited in the Title V permit, without obtaining an amendment or modification of the permit, provided that the following conditions are met:

- a) The change does not result in conditions that violate any applicable requirements or that violate any existing federally enforceable permit term or condition.
- b) The permittee provides contemporaneous written notice of the change to the Director and the Administrator of the U.S. EPA, except that no such notice shall be required for changes that qualify as insignificant emissions levels or activities as defined in OAC rule 3745-77-01(U). Such written notice shall describe each such change, the date of such change, any change in emissions or pollutants emitted, and any federally applicable requirement that would apply as a result of the change.
- c) The change shall not qualify for the permit shield under OAC rule 3745-77-07(F).
- d) The permittee shall keep a record describing all changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes.
- e) The change is not subject to any applicable requirement under Title IV of the Act or is not a modification under any provision of Title I of the Act.

Paragraph (I) of rule 3745-77-07 of the Administrative Code applies only to modification or amendment of the permittee's Title V permit. The change made may require a permit-to-install under Chapter 3745-31 of the Administrative Code if the change constitutes a modification as defined in that Chapter. Nothing in paragraph (I) of rule 3745-77-07 of the Administrative Code shall affect any applicable obligation under Chapter 3745-31 of the Administrative Code.

(Authority for term: OAC rule 3745-77-07(I))

18. Compliance Method Requirements

Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defenses otherwise available to the permittee, including but not limited to, any challenge to the Credible Evidence Rule (see 62 Federal Register 8314, Feb. 24, 1997), in the context of any future proceeding.

(This term is provided for informational purposes only.)



19. Insignificant Activities or Emissions Levels

Each IEU that is subject to one or more applicable requirements shall comply with those applicable requirements.

(Authority for term: OAC rule 3745-77-07(A)(1))

20. Permit to Install Requirement

Prior to the "installation" or "modification" of any "air contaminant source," as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.

(Authority for term: OAC rule 3745-77-07(A)(1))

21. 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.

(Authority for term: OAC rule 3745-77-07(A)(1))

22. Permanent Shutdown of an Emissions Unit

The permittee may notify Ohio EPA of any emissions unit that is permanently shut down by submitting a certification from the Responsible 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 Responsible Official that the emissions unit was permanently shut down.

After the date on which an emissions unit is permanently shut down (i.e., that 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 and therefore ceases to meet the definition of an "emissions unit" as defined in OAC rule 3745-77-01(O)), rendering existing permit terms and conditions irrelevant, the permittee shall not be required, after the date of the certification and submission to Ohio EPA, to meet any Title V permit requirements applicable to that emissions unit, except for any residual requirements, such as the quarterly deviation reports, semi-annual deviation reports and annual compliance certification covering the period during which the emissions unit last operated. All records relating to the shutdown emissions unit, generated while the emissions unit was in operation, must be maintained in accordance with law.

Unless otherwise exempted, no emissions unit identified in this permit that has been certified by the Responsible Official as being permanently shut down may resume operation without first applying for and obtaining a permit to install pursuant to OAC Chapter 3745-31.

(Authority for term: OAC rule 3745-77-01)

23. Title VI Provisions

If applicable, the permittee shall comply with the standards for recycling and reducing emissions of ozone depleting substances pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners in Subpart B of 40 CFR Part 82:



- a) Persons operating appliances for maintenance, service, repair, or disposal must comply with the required practices specified in 40 CFR 82.156.
- b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment specified in 40 CFR 82.158.
- c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

(Authority for term: OAC rule 3745-77-01(H)(11))

24. Reporting Requirements Related to Monitoring and Record Keeping Requirements Under State Law Only

The permittee shall submit required reports in the following manner:

- a) Reports of any required monitoring and/or record keeping information shall be submitted to the Regional Air Pollution Control Agency.
- b) Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (i) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and record keeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the Regional Air Pollution Control Agency. In identifying each deviation, the permittee shall specify the applicable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. 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.)

25. Records Retention Requirements Under State Law Only

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.

26. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. 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, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

(Authority for term: OAC rule 3745-77-07(C))

27. Scheduled Maintenance/Malfunction Reporting For State-Only Requirements

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the Regional Air Pollution Control Agency in accordance with paragraph (B) of 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 emissions unit(s) that is (are) served by such control system(s).

28. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The Regional Air Pollution Control Agency must be notified in writing of any transfer of this permit.

(Authority for term: OAC rule 3745-77-01(C))

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

If no emission limitation (or control requirement), operational restriction and/or control device parameter limitation 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 by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

The permittee is not required to submit a quarterly report which states that no deviations occurred during that quarter for the following situations:

- a) where an emissions unit has deviation reporting requirements for a specific emission limitation, operational restriction, or control device parameter limitation that override the deviation reporting requirements specified in Standard Term and Condition A.2.c)(2); or
- b) where an uncontrolled emissions unit has no monitoring, record keeping, or reporting requirements and the emissions unit's applicable emission limitations are established at the potential to emit; or
- c) where the company's Responsible Official has certified that an emissions unit has been permanently shut down.



30. Submitting Documents Required by this Permit

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 Regional Air Pollution Control 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 required application, notification or report is considered to be "submitted" on the date the submission is successful using a valid electronic signature. Signature by the Responsible Official may be represented as provided through procedures established in Air Services.



Draft Title V Permit
CEMEX Construction Materials Atlantic, LLC
Permit Number: P0092036
Facility ID: 0829700165
Effective Date: To be entered upon final issuance

B. Facility-Wide Terms and Conditions



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. This facility is subject to 40 CFR Part 63, Subpart LLL: National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.

According to the final requirements of the rule promulgated on December 20, 2006, the following requirements are effective until September 9, 2015:

a) Kilns and in-line kiln/raw mills - Emissions Unit P003

(1) Emissions Limitations

40 CFR 63.1340	Applicability and designation of affected sources
40 CFR 63.1341	Definitions
40 CFR 63.1342	Standards: General provisions
40 CFR 63.1343(a) and (b)	Standards for existing in-line kilns/raw mills
40 CFR 63.1344(a) and (b)	Kiln particulate matter control device temperature limits
40 CFR 63.1344(g)	Fly ash mercury restrictions
40 CFR 63.1344(h)	Cement kiln dust removal requirement
40 CFR 63.1350(b)	Operation and Maintenance Plan compliance
40 CFR 63.1351	Compliance Dates
40 CFR 63.1356	Exemption from new source performance standards (40 CFR Part 60 Subpart F)

(2) Monitoring and Reporting Requirements

40 CFR 63.1350(a)	Operations and Maintenance Plan
40 CFR 63.1350(c)	COMS requirements
40 CFR 63.1350(f)	Control device temperature monitoring requirements
40 CFR 63.1350(i)	Combustion system inspection
40 CFR 63.1350(j)	Operation and maintenance plan for COMS
40 CFR 63.1355	Record keeping requirements

(3) Reporting Requirements

40 CFR 63.1353	Notification requirements
40 CFR 63.1354	Reporting requirements

(4) Testing Requirements

40 CFR 63.1349(a)	Test report contents
40 CFR 63.1349(b)	Particulate, opacity and dioxin/furan testing requirements
40 CFR 63.1349(c)	Particulate and opacity testing frequency
40 CFR 63.1349(d)	Dioxin/furan testing frequency
40 CFR 63.1349(e)	Additional testing requirements



b) Clinker Coolers: Emissions Unit P904

(1) Emissions Limitations

40 CFR 63.1340	Applicability and designation of affected sources
40 CFR 63.1341	Definitions
40 CFR 63.1342	Standards: General provisions
40 CFR 63.1345	Standards for Clinker Coolers
40 CFR 63.1350(a)	Operation and Maintenance Plan compliance
40 CFR 63.1351	Compliance Dates

(2) Monitoring and Reporting Requirements

40 CFR 63.1350(a)	Operations and Maintenance Plan
40 CFR 63.1350(d)	COMS requirements
40 CFR 63.1350(j)	Operation and maintenance plan for COMS
40 CFR 63.1355	Record keeping requirements

(3) Reporting Requirements

40 CFR 63.1353	Notification requirements
40 CFR 63.1354	Reporting requirements

(4) Testing Requirements

40 CFR 63.1349(a)	Test report contents
40 CFR 63.1349(b)	Particulate and opacity testing requirements
40 CFR 63.1349(c)	Particulate and opacity testing frequency
40 CFR 63.1349(e)	Additional testing requirements

c) Raw and finish mills: Emissions Unit P916

(1) Emissions Limitations

40 CFR 63.1340	Applicability and designation of affected sources
40 CFR 63.1341	Definitions
40 CFR 63.1342	Standards: General provisions
40 CFR 63.1348	Standards for affected sources
40 CFR 63.1349(a) (b)(2) and (c)	Performance Testing Requirements
40 CFR 63.1350(a)	Operation and Maintenance Plan compliance
40 CFR 63.1351	Compliance Dates

(2) Monitoring and Reporting Requirements

40 CFR 63.1350(a)	Operations and Maintenance Plan
40 CFR 63.1355	Record keeping requirements



(3) Reporting Requirements

40 CFR 63.1353	Notification requirements
40 CFR 63.1354	Reporting requirements

(4) Testing Requirements

40 CFR 63.1349(a)	Test report contents
40 CFR 63.1349(b)(2)	opacity testing requirements
40 CFR 63.1349(c)	opacity testing frequency
40 CFR 63.1349(e)	Additional testing requirements

d) Sources other than kilns; in-line kiln/raw mills; clinker coolers and finish mills; Emissions Units P011, P012, P013, P014, P907, P911, P912, P913, P914, P915, P917, P918, P919, P925; P929, P930, P931, P932, P933, P934

(1) Emissions Limitations –

40 CFR 63.1340	Applicability and designation of affected sources
40 CFR 63.1341	Definitions
40 CFR 63.1342	Standards: General provisions
40 CFR 63.1348	Standards for affected sources
40 CFR 63.1349(a) (b)(2) and (c)	Performance Testing Requirements
40 CFR 63.1350(a)	Operation and Maintenance Plan compliance
40 CFR 63.1351	Compliance Dates

(2) Monitoring and Record Keeping Requirements –

40 CFR 63.1350(a)	Operations and Maintenance Plan
40 CFR 63.1350(j)	Opacity monitoring for operation and maintenance plan
40 CFR 63.1355	Record keeping requirements

(3) Reporting Requirements –

40 CFR 63.1353	Notification requirements
40 CFR 63.1354	Reporting requirements

(4) Testing Requirements –

40 CFR 63.1349(a)	Test report contents
40 CFR 63.1349(b)(2)	opacity testing requirements
40 CFR 63.1349(c)	opacity testing frequency
40 CFR 63.1349(e)	Additional testing requirements



3. This facility is subject to 40 CFR Part 63, Subpart LLL: National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.

According to the 40 CFR Part 63, Subpart LLL, Final Rules promulgated on September 9, 2010, January 18, 2011, and February 12, 2013. The following requirements become effective on and after September 9, 2015:

a) Kilns and in-line kiln/raw mills - Emissions Unit P003

(1) Emissions Limitations

40 CFR 63.1340	Applicability and designation of affected sources
40 CFR 63.1341	Definitions
40 CFR 63.1342	Standards: General provisions
40 CFR 63.1343(a) and (b)	Standards for existing in-line kilns/raw mills
40 CFR 63.1344	Affirmative defense for malfunctions
40 CFR 63.1346(a) and (b)	Particulate matter control device (PMCD) inlet temperature limits
40 CFR 63.1346(f)	Fly ash and raw material mercury restrictions
40 CFR 63.1346(g)	Start up and shutdown requirements
40 CFR 63.1347	Operation and Maintenance Plan requirements
40 CFR 63.1348	Compliance Requirements
40 CFR 63.1351	Compliance dates
40 CFR 63.1356	Sources with multiple emissions limits or monitoring requirements
40 CFR 63.1357	Temporary exemption from particulate matter standards
40 CFR 63.1358	Implementation and enforcement

(2) Monitoring and Reporting Requirements

40 CFR 63.1350(a)	Continuous compliance demonstration
40 CFR 63.1350(b)	Particulate matter monitoring requirements
40 CFR 63.1350(d)	Clinker production monitoring
40 CFR 63.1350(g)	Dioxin/furan monitoring requirements
40 CFR 63.1350(i)	Total hydrocarbon monitoring requirements
40 CFR 63.1350(j)	Total organic HAP monitoring requirements
40 CFR 63.1350(k)	Mercury monitoring requirements
40 CFR 63.1350(l)	HCl monitoring requirements
40 CFR 63.1350(m)	Parameter monitoring requirements
40 CFR 63.1350(n)	Continuous flow rate monitoring system
40 CFR 63.1350(o)	Alternative monitoring requirements approval
40 CFR 63.1350(p)	Development and submittal of monitoring plans
40 CFR 63.1355(a)	Records maintenance and availability for inspection
40 CFR 63.1355(b)	Record keeping general provisions
40 CFR 63.1355(c)	Continuous monitoring system records
40 CFR 63.1355(d)	Cement kiln dust removal records
40 CFR 63.1355(e)	Clinker production and kiln feed records
40 CFR 63.1355(f)	Start up and shut down records



40 CFR 63.1355(g)	Malfunction records
40 CFR 63.1355(h)	Exceedance records

(3) Reporting Requirements

40 CFR 63.1354(a)	Reporting – General Provisions
40 CFR 63.1354(b)	Required reports
40 CFR 63.1354(c)	Malfunction reporting
40 CFR 63.1353(a)	Notification – General provisions
40 CFR 63.1353(b)	Required notifications

(4) Testing Requirements

40 CFR 63.1348(a)	Initial performance testing
40 CFR 63.1348(b)	Continuous monitoring requirements
40 CFR 63.1349(a)	Test report contents
40 CFR 63.1349(b)	Performance testing for particulate matter, dioxin/furan, total hydrocarbons, mercury, hydrogen chloride and total HAP emissions testing
40 CFR 63.1349(c)	Performance test frequency
40 CFR 63.1349(d)	Performance test reporting requirements
40 CFR 63.1349(e)	Performance test requirements

b) Clinker Coolers: Emissions Unit P904

(1) Emissions Limitations

40 CFR 63.1340	Applicability and designation of affected sources
40 CFR 63.1341	Definitions
40 CFR 63.1342	Standards: General provisions
40 CFR 63.1343(a) and (b)	Standards for clinker coolers
40 CFR 63.1344	Affirmative defense for malfunctions
40 CFR 63.1347	Operation and Maintenance Plan requirements
40 CFR 63.1348(b)(1) and (b)(2)	Particulate matter compliance
40 CFR 63.1348(b)(9)	Startup and Shutdown Compliance
40 CFR 63.1351	Compliance dates
40 CFR 63.1356	Sources with multiple emissions limits or monitoring requirements
40 CFR 63.1357	Temporary exemption from particulate matter standards
40 CFR 63.1358	Implementation and enforcement

(2) Monitoring and Reporting Requirements

40 CFR 63.1350(a)	Continuous compliance demonstration
40 CFR 63.1350(b)	Particulate matter monitoring requirements
40 CFR 63.1350(d)	Clinker production monitoring
40 CFR 63.1350(m)	Parameter monitoring requirements



40 CFR 63.1350(n)	Continuous flow rate monitoring system
40 CFR 63.1350(o)	Alternative monitoring requirements approval
40 CFR 63.1350(p)	Development and submittal of monitoring plans
40 CFR 63.1355(a)	Records maintenance and availability for inspection
40 CFR 63.1355(b)	Record keeping general provisions
40 CFR 63.1355(c)	Continuous monitoring system records
40 CFR 63.1355(e)	Clinker production and kiln feed records
40 CFR 63.1355(f)	Start up and shut down records
40 CFR 63.1355(g)	Malfunction records
40 CFR 63.1355(h)	Exceedance records

(3) Reporting Requirements

40 CFR 63.1354(a)	Reporting – General Provisions
40 CFR 63.1354(b)	Required reports
40 CFR 63.1354(c)	Malfunction reporting
40 CFR 63.1353(a)	Notification – General provisions
40 CFR 63.1353(b)	Required notifications

(4) Testing Requirements

40 CFR 63.1348(a)	Initial performance testing
40 CFR 63.1348(b)	Continuous monitoring requirements
40 CFR 63.1349(a)	Test report contents
40 CFR 63.1349(b)	Performance testing for particulate matter
40 CFR 63.1349(c)	Performance test frequency
40 CFR 63.1349(d)	Performance test reporting requirements
40 CFR 63.1349(e)	Performance test requirements

c) Raw and finish mills: Emissions Unit P916

(1) Emissions Limitations

40 CFR 63.1340	Applicability and designation of affected sources
40 CFR 63.1341	Definitions
40 CFR 63.1342	Standards: General provisions
40 CFR 63.1345	Emissions limits for affected sources
40 CFR 63.1347	Operation and Maintenance Plan requirements
40 CFR 63.1348(a)(2)	Opacity compliance
40 CFR 63.1348(b)(3)	Opacity continuous monitoring
40 CFR 63.1348(b)(9)	Startup and Shutdown Compliance
40 CFR 63.1351	Compliance dates
40 CFR 63.1358	Implementation and enforcement



(2) Monitoring and Reporting Requirements

40 CFR 63.1350(a)	Continuous compliance demonstration
40 CFR 63.1350(f)	Opacity monitoring requirements
40 CFR 63.1355(a)	Records maintenance and availability for inspection
40 CFR 63.1355(b)	Record keeping general provisions
40 CFR 63.1355(f)	Start up and shut down records
40 CFR 63.1355(g)	Malfunction records
40 CFR 63.1355(h)	Exceedance records

(3) Reporting Requirements

40 CFR 63.1354(a)	Reporting – General Provisions
40 CFR 63.1354(b)	Required reports
40 CFR 63.1354(c)	Malfunction reporting
40 CFR 63.1353(a)	Notification – General provisions
40 CFR 63.1353(b)	Required notifications

(4) Testing Requirements

40 CFR 63.1348(a)(2)	Initial performance testing
40 CFR 63.1348(b)(3)	Continuous monitoring requirements
40 CFR 63.1349(a)	Test report contents
40 CFR 63.1349(b)(2)	Performance testing for opacity
40 CFR 63.1349(d)	Performance test reporting requirements
40 CFR 63.1349(e)	Performance test requirements

d) Sources other than kilns; in-line kiln/raw mills; clinker coolers and finish mills; Emissions Units P011, P012, P013, P014, P907, P911, P912, P913, P914, P915, P917, P918, P919, P925; P929, P930, P931, P932, P933, P934

(1) Emissions Limitations –

40 CFR 63.1340	Applicability and designation of affected sources
40 CFR 63.1341	Definitions
40 CFR 63.1342	Standards: General provisions
40 CFR 63.1345	Emissions limits for affected sources
40 CFR 63.1347	Operation and Maintenance Plan requirements
40 CFR 63.1348(a)(2)	Opacity compliance
40 CFR 63.1348(b)(3)	Opacity continuous monitoring
40 CFR 63.1348(b)(9)	Startup and Shutdown Compliance
40 CFR 63.1351	Compliance dates
40 CFR 63.1358	Implementation and enforcement



(2) Monitoring and Record Keeping Requirements –

40 CFR 63.1350(a)	Continuous compliance demonstration
40 CFR 63.1350(f)	Opacity monitoring requirements
40 CFR 63.1355(a)	Records maintenance and availability for inspection
40 CFR 63.1355(b)	Record keeping general provisions
40 CFR 63.1355(f)	Start up and shut down records
40 CFR 63.1355(g)	Malfunction records
40 CFR 63.1355(h)	Exceedance records

(3) Reporting Requirements –

40 CFR 63.1354(a)	Reporting – General Provisions
40 CFR 63.1354(b)	Required reports
40 CFR 63.1354(c)	Malfunction reporting
40 CFR 63.1353(a)	Notification – General provisions
40 CFR 63.1353(b)	Required notifications

(4) Testing Requirements –

40 CFR 63.1348(a)(2)	Initial performance testing
40 CFR 63.1348(b)(3)	Continuous monitoring requirements
40 CFR 63.1349(a)	Test report contents
40 CFR 63.1349(b)(2)	Performance testing for opacity
40 CFR 63.1349(d)	Performance test reporting requirements
40 CFR 63.1349(e)	Performance test requirements

4. The following insignificant emissions units at this facility must comply with all applicable State and federal regulations, as well as any emissions limitations and/or control requirements contained within the identified permit-to-install for the emissions unit. The insignificant emissions units listed below are subject to one or more applicable requirements contained in a permit-to-install or in the SIP approved versions of OAC Chapters 3745-17, 3745-18, 3745-21, and 3745-31, and/or 40 CFR Part 60 or 63:

- B001 Emergency Generator
- P015 Solvent parts cleaning
- P011 Clinker transfer, PTI 08-2136, 40 CFR Part 63, Subpart LLL
- P012 Clinker storage silo, PTI 08-2136, 40 CFR Part 63, Subpart LLL
- P013 Hot clinker storage silo, PTI 08-2136, 40 CFR Part 63, Subpart LLL
- P909 Coal handling, 40 CFR Part 60, subpart Y
- P917 Cement transport, PTI 08-03072, 40 CFR Part 63, Subpart LLL
- P929 Synthetic gypsum hopper and conveyor, PTI 08-04441, 40 CFR Part 63, Subpart LLL
- P930 Fly ash hopper and conveyor, PTI 08-4630, 40 CFR Part 63, Subpart LLL
- P931 Cement transfer to bag packers, PTI 08-04737, 40 CFR Part 63, Subpart LLL
- P934 Trash cement product bin, PTI 08-04737, 40 CFR Part 63, Subpart LLL



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C. Emissions Unit Terms and Conditions



1. F106, Paved & Unpaved Surfaces (Quarry Plant)

Operations, Property and/or Equipment Description:

Unpaved roadways and parking areas

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.	OAC rule 3745-31-05(A)(3) PTI P0113407 issued May 10, 2013	18.6 tons/year of fugitive particulate matter of 10 microns or less (PM10) 62.9 tons/year of fugitive particulate emissions (PE) No visible PE except for 3 minutes during any 60-minute period. Best available control measures that are sufficient to minimize or eliminate visible PE of fugitive dust See b)(2)a. through b)(2)f.
b.	OAC rule 3745-17-07(B)	See b)(2)g.
c.	OAC rule 3745-17-08(B)	See b)(2)g.

(2) Additional Terms and Conditions

a. The permittee shall employ best 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 application, the permittee has committed to treat the unpaved roadways and parking areas by application of chemical stabilization/dust suppressants and/or watering at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.



- b. The 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 unpaved roadways and parking areas that are 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.
- c. 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.
- d. Any unpaved roadway or parking area that is subsequently paved, will require a General Permit for paved roadways and parking areas.
- e. 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.
- f. Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the best available technology requirements of OAC rule 3745-31-05.
- g. 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.

Authority for term: PTI P0113407 and OAC rule 3745-77-07(A)

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

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

<u>unpaved roadways and parking areas</u>	<u>minimum inspection frequency</u>
all roads and parking areas	daily

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.

Authority for term: PTI P0113407 and OAC rule 3745-77-07(A)(3)

(2) The permittee shall maintain records of the following information:

- a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
- b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
- c. the dates the control measures were implemented; and
- d. on a calendar quarter basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

The information required in d)(3)d. shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

Authority for term: PTI P0113407 and OAC rule 3745-77-07(A)(3)

e) 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.

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

Authority for term: PTI P0113407 and OAC rule 3745-77-07(A)(3)

f) Testing Requirements

- (1) Compliance with the emission limitations in b)(1) shall be determined in accordance with the following methods:
 - a. Emission Limitations:
18.6 tons/year of fugitive PM10
62.9 tons/year of fugitive PE



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Permit Number: P0092036

Facility ID: 0829700165

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Applicable Compliance Method:

Compliance with fugitive PE and PM10 limitations shall be determined by using the emission factor equations in Section 13.2.2, in Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Volume 1 (revised 12/03) for unpaved roadways. Should further updates in AP-42 occur, the most current equations for unpaved roads shall be used. These emission limits in the General Permit were based on a maximum of 300,000 vehicle miles traveled per year, and 95% control efficiency for PE and PM10.

b. Emission Limitation:

No visible PE from unpaved roadways and parking areas except for a period of time not to exceed 3 minutes during any 60-minute observation period.

Applicable Compliance Method:

If required, compliance with the visible PE limitation listed above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

Authority for term: PTI P0113407 and OAC rule 3745-77-07(C)(1)

g) Miscellaneous Requirements

(1) None.



2. F107, Paved Surfaces

Operations, Property and/or Equipment Description:

Paved Roadways and Parking Areas

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.	OAC rule 3745-31-05(A)(3) PTI 08-04737 issued March 21, 2006	<p>The emissions of fugitive particulate matter less than 10 microns (PM10) shall not exceed 12.7 tons per year (TPY).</p> <p>All fugitive particulate emissions shall not exceed 65.0 tons per year.</p> <p>There shall be no visible particulate emissions except for one minute during any 60 minute period.</p> <p>Best available control measures that are sufficient to minimize or eliminate visible particulate emissions of fugitive dust</p> <p>See b)(2)a. through b)(2)f.</p>
b.	OAC rule 3745-17-07(B)	See b)(2)g.
c.	OAC rule 3745-17-08(B)	See b)(2)g.

(2) Additional Terms and Conditions

a. The permittee shall employ best 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 application, the permittee has committed to treat the paved roadways and parking areas by street sweeping and/or watering at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.



- b. The 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 paved roadways and parking areas that are 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.
- c. 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.
- d. 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.
- e. Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the best available technology requirements of OAC rule 3745-31-05.
- f. 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.

Authority for term: PTI 08-04737 and OAC rule 3745-77-07(A)

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

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

<u>paved roadways and parking areas</u>	<u>minimum inspection frequency</u>
all roads and parking areas	daily

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.

Authority for term: PTI 08-04737

- (2) The permittee shall maintain records of the following information:
- a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - c. the dates the control measures were implemented; and
 - d. on a calendar quarter basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

The information required in d)(2)d. shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

Authority for term: PTI 08-04737 and OAC rule 3745-77-07(A)(3)

e) 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.

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

Authority for term: PTI 08-04737 and OAC rule 3745-77-07(A)(3)

f) Testing Requirements

- (1) Compliance with the emission limitations in b)(1) shall be determined in accordance with the following methods:



a. Emission Limitations:

The emissions of fugitive PM10 shall not exceed 12.7 tons per year.

All fugitive particulate emissions shall not exceed 65.0 tons per year.

Applicable Compliance Method:

Compliance with fugitive particulate emissions and PM10 limitations shall be determined by using the emission factor equations in Section 13.2.1, in Compilation of Air Pollutant Emission Factors, AP 42, Fifth Edition, Volume 1 (revised 12/03) for paved roadways. Should further updates in AP-42 occur, the most current equations for paved roads shall be used.

b. Emission Limitation:

No visible particulate emissions from paved roadways and parking areas except for a period of time not to exceed one minute during any 60-minute observation period.

Applicable Compliance Method:

If required, compliance with the visible particulate emissions limitation listed above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

Authority for term: PTI 08-04737 and OAC rule 3745-77-07(C)(1)

g) Miscellaneous Requirements

(1) None.



3. F108, Storage Piles Quarry

Operations, Property and/or Equipment Description:

Outdoor Storage Piles at Quarry Plant - Coal, Clay, Limestone and Slag

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.	OAC rule 3745-17-07(B)	See b)(2)a.
b.	OAC rule 3745-17-08(B)	See b)(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.

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) None.

e) Reporting Requirements

(1) None.

f) Testing Requirements

(1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. None.



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- g) Miscellaneous Requirements
 - (1) None.



4. P003, Clinker Production

Operations, Property and/or Equipment Description:

Four stage preheater cement kiln with in line raw mill, low NOx burner and two stacks. Main kiln stack with baghouse, selective non-catalytic reduction. Alkali bypass stack with baghouse and lime spray absorption.

- 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.	OAC rule 3745-31-05(D) (United States of America and the State of Ohio v. CEMEX, Inc. and CEMEX Construction Materials Atlantic, LLC, (Civil Action No. 3:11CV00037), lodged February 10, 2011 United States District Court Southern District of Ohio, Western Division.	The nitrogen oxides (NOx) emissions from this emissions unit shall not exceed 3.11 pounds per ton of cement clinker manufactured as a 30-day rolling average. The sulfur dioxide (SO2) emissions from this emissions unit shall not exceed 1.10 pounds per ton of cement clinker manufactured as a 30-day rolling average. See b)(2)a. through b)(2)e.
b.	OAC rule 3745-17-11(B)	The particulate emissions limitations specified by this rule are less stringent than the emissions limitations specified by 40 CFR Part 63, Subpart LLL.
c.	OAC rule 3745-17-07(A)	Visible particulate emissions from the stacks serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.
d.	OAC rule 3745-18-35	The SO2 emissions limitations specified by this rule are less stringent than the emissions limitations specified by ORC 3704.03(T).



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	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
e.	OAC rule 3745-17-07(B)	See b)(2)f.
f.	OAC rule 3745-17-08(B)	See b)(2)f.
g.	OAC rule 3745-14-11	See b)(2)g.
h.	40 CFR Part 63, Subpart LLL	<p><u>The following emissions limitations are effective prior to September 9, 2015:</u></p> <p>The particulate emissions from this emissions unit shall not exceed 0.30 pound per ton feed (dry basis) to the kiln.</p> <p>The Dioxins/furan (D/F) emissions from this emissions unit shall not exceed 8.7×10^{-11} grain/dry standard cubic foot [toxicity equivalents for dioxins and furans (TEQ)] corrected to seven percent oxygen; or 1.7×10^{-10} grain per dry standard cubic foot (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 °F or less.</p> <p>The visible particulate emissions from this emissions unit shall not exhibit opacity greater than 20 percent.</p> <p>See Section B.2.</p> <p><u>The following emissions limitations are effective on and after September 9, 2015:</u></p> <p>The particulate emissions from this emissions unit shall not exceed 0.07 pound per ton of clinker manufactured.</p> <p>See b)(2)h.</p> <p>The D/F emissions from this emissions unit shall not exceed 0.20 nanogram per dry standard cubic meter (TEQ) corrected to seven percent oxygen, or 0.40 nanogram per dry standard cubic meter corrected to seven percent oxygen if the average temperature at the inlet to the baghouse during the D/F performance test is 400 °F or less.</p>



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	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		<p>The mercury emissions from this emissions unit shall not exceed 55 pounds per million tons of clinker manufactured.</p> <p>The total hydrocarbon emissions shall not exceed 24 parts per million volume on a dry basis (ppmvd) corrected to seven percent oxygen or the total organic hazardous air pollutant (HAP) emissions shall not exceed 12 ppmvd corrected to seven percent oxygen as a rolling 30-day average.</p> <p>The hydrogen chloride (HCl) emissions from this emissions unit shall not exceed 3 ppmvd corrected to seven percent oxygen as a rolling 30-day average.</p> <p>See Section B.3.</p>
j.	40 CFR Part 64 - Compliance Assurance Monitoring (CAM)	<u>See d)(1), d(3), d)(6) through d)(8) and e)(3)</u>

(2) Additional Terms and Conditions

- a. The NOx and SO2 emissions limitations are based on the sum of the combined emissions from the main kiln stack and the alkali bypass stack.
- b. The selective non-catalytic reduction (SNCR) control system installed to control NOx emissions from the main kiln stack on this emissions unit shall be operated at all times the cement kiln is in operation consistent with the technological limitations (including but not limited to exhaust temperatures), manufacturers' specifications, and good engineering and maintenance practices for such pollution control technology and the cement kiln, and good air pollution control practices for minimizing emissions.
- c. The lime spray absorption (LSA) control system installed to control SO2 emissions from the alkali bypass stack on this emissions unit shall be operated at all times the cement kiln is in operation consistent with the technological limitations (including but not limited to exhaust temperatures), manufacturers' specifications, and good engineering and maintenance practices for such pollution control technology and the cement kiln, and good air pollution control practices for minimizing emissions.
- d. The permittee shall operate NOx, and SO2 continuous emissions monitoring systems (CEMS) in both the main kiln stack and alkali bypass stack at all times



this emissions unit is in operation, except as otherwise provided in 40 CFR Part 60. All NO_x and SO₂ emissions shall be measured by the CEMS.

The CEMS consists of all the equipment used to acquire data to provide a record of emissions and includes the sample extraction and transport hardware, sample conditioning hardware, analyzers, and data recording/processing hardware and software.

If the CEMS are inoperable or otherwise not measuring and recording valid NO_x and SO₂ emissions data, the permittee shall use the missing data substitution procedures in 40 CFR Part 75, Subpart D, and shall report NO_x and SO₂ CEMS downtime in accordance with 40 CFR Part 60, Section 60.7(c).

The permittee shall maintain a written quality assurance/quality control plan for the NO_x and SO₂ CEMS, designed to ensure continuous valid and representative readings of NO_x and SO₂ emissions in units of the applicable standard(s). The plan shall follow the requirements of 40 CFR Part 60, Appendix F. The quality assurance/quality control plan and a logbook dedicated to the NO_x and SO₂ CEMS must be kept on site and available for inspection during regular office hours.

The plan shall include the requirement to conduct quarterly cylinder gas audits or relative accuracy audits as required in 40 CFR Part 60; and to conduct relative accuracy test audits in units of the standard(s), in accordance with and at the frequencies required per 40 CFR Part 60.

- e. The permittee shall operate continuous opacity monitoring systems (COMS) in both the main kiln stack and alkali bypass stack at all times this emissions unit is in operation, except as otherwise provided in 40 CFR Part 60. The COMS consists of all the equipment used to acquire data and record opacity.

The permittee shall maintain a written quality assurance/quality control plan for the continuous opacity monitoring system, designed to ensure continuous valid and representative readings of opacity and compliance with 40 CFR Part 60, Appendix B, Performance Specification 1. The plan shall include, at a minimum, procedures for conducting and recording daily automatic zero/span checks, provisions for conducting a quarterly audit of the continuous opacity monitoring system, and a description of preventive maintenance activities. The plan shall describe step by step procedures for ensuring accurate operation of the continuous opacity monitoring system on a continuous basis. The quality assurance/quality control plan and a logbook dedicated to the continuous opacity monitoring system must be kept on site and available for inspection during regular office hours.

- f. This emissions unit is not located in an area listed in Appendix A of OAC rule 3745-17-08. Therefore, this emissions unit is not subject to the reasonably achievable control measures (RACM) requirements established in OAC rule 3745-17-08(B) and the visible emissions limitations specified in OAC rule 3745-17-07(B).



- g. The permittee shall not operate the kiln during May 1 through September 30, unless the permittee has installed and operates the kiln with low-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.

In accordance with OAC rule 3745-14-11(D), the requirements of OAC rule 3745-14-11 shall not apply during periods of start-up and shutdown and periods of malfunction not to exceed thirty-six consecutive hours and during regularly scheduled maintenance activities.

- h. When there is an alkali bypass and/or an inline coal mill with a separate stack associated with a kiln, the combined PM emissions from the kiln and the alkali bypass stack and/or the inline coal mill stack are subject to the PM emissions limit. Existing kilns that combine the clinker cooler exhaust and/or coal mill exhaust with the kiln exhaust and send the combined exhaust to the PM control device as a single stream may meet an alternative PM emissions limit. This limit is calculated using Equation 1 of 40 CFR Part 63.1343(b)(2).

Authority for term: United States of America and the State of Ohio v. CEMEX, (Civil Action No. 3:11CV00037), 40 CFR Part 63, Subpart LLL and OAC rule 3745-77-07(A)

c) Operational Restrictions

- (1) 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.

Authority for term: OAC rule 3745-77-07(A)

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain on site, the document(s) of certification received from the U.S. EPA or the Ohio EPA Central Office documenting that:
- a. the NOx CEMS has been certified to meet the requirements of 40 CFR Part 60, Appendix B, Performance Specifications 2 and 6;
 - b. the SO2 CEMS has been certified to meet the requirements of 40 CFR Part 60, Appendix B, Performance Specifications 2 and 6;
 - c. the COMS has been certified to meet the requirements of 40 CFR Part 60, Appendix B, Performance Specification 1.

The letter(s)/document(s) of certification shall be made available to the Director (the appropriate Ohio EPA District Office or local air agency) upon request.

Each continuous monitoring system consists of all the equipment used to acquire and record data in units of all applicable standard(s), and includes the sample extraction and transport hardware, sample conditioning hardware, analyzers, and data processing hardware and software.



Authority for term: United States of America and the State of Ohio v. CEMEX, (Civil Action No. 3:11CV00037), 40 CFR Part 64 and OAC rule 3745-77-07(A)(3)

- (2) The permittee shall operate and maintain equipment to continuously monitor and record:
- a. NO_x; and
 - b. SO₂;

emissions from this emissions unit in units of the applicable standard(s). The continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.

- c. The permittee shall maintain records of all data obtained by the CEMS including, but not limited to emissions of:
 - i. NO_x; and
 - ii. SO₂;in parts per million for each cycle time of the analyzer, with no resolution less than one data point per minute required;
- d. The emissions of:
 - i. NO_x; and
 - ii. SO₂;in pounds per hour and in units of the applicable standard(s) in the appropriate averaging period;
- e. results of quarterly cylinder gas audits;
- f. results of daily zero/span calibration checks and the magnitude of manual calibration adjustments;
- g. results of required relative accuracy test audit(s), including results in units of the applicable standard(s);
- h. hours of operation of the emissions unit, NO_x and SO₂ CEMS and control equipment;
- i. the date, time, and hours of operation of the emissions unit without the control equipment and/or NO_x and SO₂ CEMS;
- j. the date, time, and hours of operation of the emissions unit during any malfunction of the control equipment and/or the NO_x and SO₂ CEMS; as well as,
- k. the reason (if known) and the corrective actions taken (if any) for each such event in d)(2)(j) and d)(2)(k).



All valid data points generated and recorded by the continuous emission monitoring and data acquisition and handling system shall be used in the calculation of the pollutant concentration and/or emission rate over the appropriate averaging period.

Authority for term: United States of America and the State of Ohio v. CEMEX, (Civil Action No. 3:11CV00037), 40 CFR Part 63, Subpart LLL and OAC rule 3745-77-07(A)(3)

- (3) The permittee shall operate and maintain the continuous opacity monitoring system to continuously monitor and record the opacity of the particulate emissions from this emissions unit. The continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.

The permittee shall maintain records of data obtained by the continuous opacity monitoring system including, but not limited to:

- a. percent opacity on an instantaneous (one-minute) and 6-minute block average basis;
- b. results of daily zero/span calibration checks and the magnitude of manual calibration adjustments;
- c. hours of operation of the emissions unit, continuous opacity monitoring system, and control equipment;
- d. the date, time, and hours of operation of the emissions unit without the control equipment and/or the continuous opacity monitoring system;
- e. the date, time, and hours of operation of the emissions unit during any malfunction of the control equipment and/or the continuous opacity monitoring system; as well as,
- f. the reason (if known) and the corrective actions taken (if any) for each such event in d)(3)(d) and d)(3)(e).

Authority for term: 40 CFR Part 63, Subpart LLL, 40 CFR Part 64, and OAC rule 3745-77-07(A)(3)

- (4) The permittee shall collect and record the following information each day for this emissions unit:
- a. The type of fuel being used;
 - b. The weight of cement clinker manufactured, in tons;
 - c. The rolling 30-day total weight of clinker manufactured, in tons (the weight in d)(4)b. plus the sum of the weights for the 29 previous operating days);
 - d. The NO_x emissions, in pounds, based on the CEMS data collected according to d)(2);



- e. The rolling 30-day total NO_x emissions, in pounds, (the weight in d)(4)d. plus the sum of the weights for the 29 previous operating days);
- f. The NO_x emissions, in pounds NO_x per ton of clinker, as a 30-day rolling average (d)(4)e. divided by d)(4)c.);
- g. The SO₂ emissions, in pounds, based on the CEMS data collected according to d)(2);
- h. The rolling 30-day total SO₂ emissions, in pounds, (the weight in d)(4)g. plus the sum of the weights for the 29 previous operating days);
- i. The SO₂ emissions, in pounds SO₂ per ton of clinker, as a 30-day rolling average (d)(4)h. divided by d)(4)c.).

Authority for term: United States of America and the State of Ohio v. CEMEX, (Civil Action No. 3:11CV00037), and OAC rule 3745-77-07(A)(3)

- (5) In accordance with OAC rule 3745-14-11(C)(2), the permittee must keep the following records for May 1 through September 30:
 - a. the average NO_x emissions, in pounds of NO_x 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 NO_x emissions monitoring equipment;
 - c. the results of any NO_x 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.

Authority for term: OAC rules 3745-14-11 and 3745-77-07(A)(3)

- (6) The CAM plan for this emissions unit is based on the use of the COMS and the operations and maintenance plan prepared in accordance with 40 CFR Part 63, Subpart LLL. For visible emissions, an excursion is defined as any occasion when visible emissions are observed exiting the baghouse stacks that exceed 20 percent opacity as a six minute average.

The definition of excursion noted above is effective for the duration of this permit, unless revisions are requested by the permittee and approved by Ohio EPA. The permittee may request revisions to the excursion definition above based upon information obtained during future emission tests that demonstrate compliance with the emission limitations



for this emissions unit. In addition, approved revisions to the ranges will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of a minor permit modification.

Authority for term: 40 CFR Part 63, Subpart LLL, 40 CFR Part 64, and OAC rule 3745-77-07(A)(3)

- (7) For any excursion that occurs the permittee shall record the following information:
- a. The duration of the excursion;
 - b. A description of any corrective action that was completed;
 - c. The date and time the corrective action was completed; and
 - d. The identification of the personnel who completed the corrective action.

Authority for term: 40 CFR Part 64, and OAC rule 3745-77-07(A)(3)

- (8) If a determination is made by the Administrator or Ohio EPA that the permittee has not used acceptable procedures in response to an excursion or exceedance based on the results of a determination made according to 40 CFR Part 64.7(d)(2), the permittee may be required to develop a Quality Improvement Plan (QIP) according to the specifications of 40 CFR 64.8.

Authority for term: 40 CFR Part 64, and OAC rule 3745-77-07(A)(3)

e) Reporting Requirements

- (1) The permittee shall submit quarterly deviation (excursion) reports that identify the following:
- a. any day that the cement kiln was in operation and the SNCR control system was not in operation;
 - b. any day when the NO_x emissions exceeded 3.11 pounds NO_x per ton of cement clinker manufactured as a 30-day rolling average;
 - c. any day that the cement kiln was in operation and the alkali bypass LSA system was not in operation;
 - d. any day when the SO₂ emissions exceeded 1.10 pounds SO₂ per ton of cement clinker manufactured as a 30-day rolling average;
 - e. any day when a fuel other than natural gas, coal, virgin No. 2 fuel oil, pet coke or coke breeze was used;
 - f. the probable cause of each deviation (excursion);
 - g. the magnitude of each deviation (excursion);



- h. any corrective actions that were taken to remedy the deviation (excursion) and/or prevent future deviation (excursions).

If no deviation (excursion) occurred during a calendar quarter, the permittee shall submit a report that states that no deviation (excursion) occurred during the quarter.

The quarterly deviation (excursion) reports shall be submitted in accordance with the reporting requirements of the Standard Terms and Conditions of this permit. The quarterly reports shall be submitted, electronically through Ohio EPA Air Services, each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).

Authority for term: United States of America and the State of Ohio v. CEMEX, (Civil Action No. 3:11CV00037), 40 CFR Part 63, Subpart LLL and OAC rule 3745-77-07(A)(3)

- (2) The permittee shall comply with the following quarterly reporting requirements for the emissions unit and its NO_x, and SO₂ CEMS:

- a. Pursuant to the monitoring, record keeping, and reporting requirements for continuous monitoring systems contained in 40 CFR 60.7 and 60.13(h) and the requirements established in this permit, 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 NO_x emissions in excess of any applicable limit specified in this permit, OAC Chapters 3745-14, 3745-18 and any other applicable rules or regulations. The report shall document the date, commencement and completion times, duration, and magnitude of each exceedance, as well as the reason (if known) and the corrective actions taken (if any) for each exceedance. Excess emissions shall be reported in units of the applicable standard(s).

- b. These quarterly reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall include the following:

- i. the facility name and address;
- ii. the manufacturer and model number of the NO_x and SO₂ CEMS and other associated monitors;
- iii. a description of any change in the equipment that comprises the CEMS, including any change to the hardware, changes to the software that may affect CEMS readings, and/or changes in the location of the CEMS sample probe;
- iv. the excess emissions report (EER)*, i.e., a summary of any exceedances during the calendar quarter, as specified above;
- v. the total NO_x and SO₂ CEMS emissions for the calendar quarter (tons);
- vi. the total operating time (hours) of the emissions unit;



- vii. the total operating time of the NO_x and SO₂ CEMS while the emissions unit was in operation;
- viii. results and dates of quarterly cylinder gas audits;
- ix. unless previously submitted, results and dates of the relative accuracy test audit(s), including results in units of the applicable standard(s), (during appropriate quarter(s));
- x. unless previously submitted, the results of any relative accuracy test audit showing the NO_x and SO₂ out-of-control and the compliant results following any corrective actions;
- xi. the date, time, and duration of any/each malfunction** of the continuous NO_x and SO₂ monitoring system, emissions unit, and/or control equipment;
- xii. the date, time, and duration of any downtime** of the NO_x and SO₂ CEMS and/or control equipment while the emissions unit was in operation; and
- xiii. the reason (if known) and the corrective actions taken (if any) for each event in e)(2)b.xi. and e)(2)b.xii.

Each report shall address the operations conducted and data obtained during the previous calendar quarter.

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

* where no excess emissions have occurred or the continuous monitoring system(s) has/have not been inoperative, repaired, or adjusted during the calendar quarter, such information shall be documented in the EER quarterly report.

** each downtime and malfunction event shall be reported regardless if there is an exceedance of any applicable limit.

Authority for term: United States of America and the State of Ohio v. CEMEX, (Civil Action No. 3:11CV00037), 40 CFR Part 63, Subpart LLL and OAC rule 3745-77-07(A)(3)

- (3) The permittee shall comply with the following quarterly reporting requirements for the emissions unit and its COMS:
 - a. Pursuant to the monitoring, record keeping, and reporting requirements for continuous monitoring systems contained in 40 CFR Parts 60.7 and 60.13(h) and the requirements established in this permit, 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 any limitation specified in this permit, 40 CFR Part 60, OAC



rule 3745-17-07, and any other applicable rules or regulations. The report shall document the date, commencement and completion times, duration, and magnitude (percent opacity) of each 6-minute block average exceeding the applicable opacity limitation(s), as well as, the reason (if known) and the corrective actions taken (if any) for each exceedance.

- b. These quarterly reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall include the following:
- i. the facility name and address;
 - ii. the manufacturer and model number of the continuous opacity monitor;
 - iii. a description of any change in the equipment that comprises the continuous opacity monitoring system (COMS), including any change to the hardware, changes to the software that may affect COMS readings, and/or changes in the location of the COMS sample probe;
 - iv. the excess emissions report (EER)*, i.e., a summary of any exceedances during the calendar quarter, as specified above;
 - v. the total operating time (hours) of the emissions unit;
 - vi. the total operating time of the continuous opacity monitoring system while the emissions unit was in operation;
 - vii. the date, time, and duration of any/each malfunction** of the continuous opacity monitoring system, emissions unit, and/or control equipment;
 - viii. the date, time, and duration of any downtime** of the continuous opacity monitoring system and/or control equipment while the emissions unit was in operation; and
 - ix. the reason (if known) and the corrective actions taken (if any) for each event in (vii) and (viii).

Each report shall address the operations conducted and data obtained during the previous calendar quarter.

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

* where no exceedance of the opacity limit has occurred or the continuous monitoring system(s) has/have not been inoperative, repaired, or adjusted during the calendar quarter, such information shall be documented in the quarterly EER report

** each downtime and malfunction event shall be reported regardless of whether there is an exceedance of the opacity limit.



Authority for term: 40 CFR Part 63, Subpart LLL, 40 CFR Part 64 and OAC rule 3745-77-07(A)(3)

- (4) In accordance with OAC rule 3745-14-11(C)(1)(b), the permittee shall submit a report documenting the total NOx emissions from May 1 through September 30 of each year to the Director by October 31 of each year.

Authority for term: OAC rules 3745-14-11 and 3745-77-07(A)(3)

f) Testing Requirements

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in b) shall be determined in accordance with the following methods:

a. Emissions Limitation –

The NOx emissions from this emissions unit shall not exceed 3.11 pounds per ton of cement clinker manufactured as a 30-day rolling average.

The SO2 emissions from this emissions unit shall not exceed 1.10 pounds per ton of cement clinker manufactured as a 30-day rolling average.

Applicable Compliance Method -

Ongoing compliance with the NOx, and SO2 emissions limitations contained in this permit, 40 CFR Part 60, and any other applicable standard(s) shall be demonstrated through the data collected as required in the Monitoring and Record keeping Section of this permit; and through demonstration of compliance with the quality assurance/quality control plan, which shall meet the testing and recertification requirements of 40 CFR Part 60.

b. Emissions Limitation -

Visible particulate emissions from the stacks serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method -

Ongoing compliance with the opacity limitation contained in this permit, 40 CFR Part 60, and any other applicable standard(s) shall be demonstrated through the data collected as required in the Monitoring and Record keeping Section of this permit; and through demonstration of compliance with the quality assurance/quality control plan, which shall meet the testing and recertification requirements of 40 CFR Part 60.

Authority for term: United States of America and the State of Ohio v. CEMEX, (Civil Action No. 3:11CV00037), and OAC rule 3745-77-07(C)(1)

g) Miscellaneous Requirements

- (1) None.



5. P014, Clinker Reclaim

Operations, Property and/or Equipment Description:

Clinker Silo Reclaim - Vibrating Feeders, F177 (1-4), Fabric Filters F178 (1-4); Hooded Belt Conveyor F181, Fabric Filter 182; Vibrating Feeder, F179, Fabric Filter 182

- 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.	OAC rule 3745-31-05(A)(3) PTI 08-2136 issued September 26, 1990	The particulate emissions from the fabric filters serving this emissions unit shall not exceed 0.03 grain per dry standard cubic foot (dscf) of exhaust gases or there shall be no visible particulate emissions from the stack serving this emissions unit. The particulate emissions from this emissions unit shall not exceed 40.8 pounds per day and 7.4 tons per year. See b)(2)a.
b.	OAC rule 3745-17-07(A)	The visible particulate emissions limitation specified by this rule is less stringent than the visible emissions limitation established according to OAC rule 3745-31-05(A)(3).
c.	OAC rule 3745-17-07(B)	See b)(2)b.
d.	OAC rule 3745-17-08(B)	See b)(2)b.
e.	40 CFR Part 63, Subpart LLL	The visible particulate emissions from this emissions unit shall not exhibit opacity greater than 10 percent. See Sections B.2. and B.3.
f.	40 CFR Part 64 - Compliance Assurance Monitoring (CAM)	See d)(1) through d)(3) and e)(1).



(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 particulate emissions 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, this 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).

Authority for term: PTI 08-02136

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) The CAM Plan for this emissions unit is based on visible emissions observations and the operations and maintenance plan prepared in accordance with 40 CFR Part 63, Subpart LLL. For visible emissions, an excursion is defined as any occasion when visible emissions observed exiting the baghouse stacks are not deemed to be from normal operations.

The definition of excursion noted above is effective for the duration of this permit, unless revisions are requested by the permittee and approved by Ohio EPA. The permittee may request revisions to the excursion definition above based upon information obtained during future emission tests that demonstrate compliance with the emission limitations for this emissions unit. In addition, approved revisions to the ranges will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of a minor permit modification.

Authority for term: 40 CFR Part 63, Subpart LLL, 40 CFR Part 64, and OAC rule 3745-77-07(A)(3)

- (2) The permittee shall perform daily checks, when this 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.

If visible emissions are present, a visible emissions incident has occurred. The observer does not have to document the exact start and end times for the visible emissions incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emissions 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. Authority for term: 40 CFR Part 64, OAC rule 3745-77-07(A)(3) and PTI 08-02136

- (3) If a determination is made by the Administrator or Ohio EPA that the permittee has not used acceptable procedures in response to an excursion or exceedance based on the results of a determination made according to 40 CFR Part 64.7(d)(2), the permittee may be required to develop a Quality Improvement Plan (QIP) according to the specifications of 40 CFR 64.8.

Authority for term: 40 CFR Part 64 and OAC rule 3745-77-07(A)(3)

e) Reporting Requirements

- (1) The permittee shall submit semiannual written reports that identify:
 - a. all days during which any visible particulate emissions were observed from the stacks serving this emissions unit; and
 - b. 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.

Authority for term: 40 CFR Part 64 and OAC rule 3745-77-07(A)(3)

f) Testing Requirements

- (1) Compliance with the emission limitations in b)(1) shall be determined in accordance with the following methods:
 - a. Emissions Limitation –

The particulate emissions from the fabric filters serving this emissions unit shall not exceed 0.03 grain per dry standard cubic foot of exhaust.



Applicable Compliance Method -

If requested, compliance shall be determined by emission measurements performed in accordance with the procedures specified in OAC rule 3745-17-03(B)(10) and U.S. EPA Reference Method 5 of 40 CFR Part 60, Appendix A.

b. Emissions Limitation -

There shall be no visible particulate emissions from the stacks serving this emissions unit.

Applicable Compliance Method -

If requested, compliance shall be determined by visible emission evaluations performed in accordance with the procedures specified in U.S. EPA Reference Method 22 of 40 CFR Part 60, Appendix A.

c. Emissions Limitation -

The particulate emissions from this emissions unit shall not exceed 40.8 pounds per day and 7.4 tons per year.

Applicable Compliance Method -

The daily allowable particulate emissions limitation limit is based on the maximum grain loading of 0.03 grain/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.

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 (40.8 pounds per day) by 365 days/year, and dividing by 2000 pounds per ton).

Authority for term OAC rule 3745-17-07(C)(1) and PTI 08-02136

g) Miscellaneous Requirements

- (1) None.



6. P904, Clinker Cooling

Operations, Property and/or Equipment Description:

Clinker Cooler with baghouse (F47)

- 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.	OAC rule 3745-17-07(A)	Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.
b.	OAC rule 3745-17-07(B)	See b)(2)a.
c.	OAC rule 3745-17-08(B)	See b)(2)a.
d.	OAC rule 3745-17-11(B)	The particulate emissions limitation established according to this rule is less stringent than the emissions limitation according to 40 CFR Part 63, Subpart LLL.
e.	40 CFR Part 63, Subpart LLL	<p><u>The following emissions limitations are effective prior to September 9, 2015:</u></p> <p>The particulate emissions from this emissions unit shall not exceed 0.10 pound per ton feed (dry basis) to the kiln.</p> <p>The visible particulate emissions from this emissions unit shall not exhibit opacity greater than 10 percent.</p> <p>See Section B.2.</p> <p><u>The following emissions limitations are effective on and after September 9, 2015:</u></p>



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CEMEX Construction Materials Atlantic, LLC

Permit Number: P0092036

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Effective Date: To be entered upon final issuance

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		The particulate emissions from this emissions unit shall not exceed 0.07 pound per ton of clinker manufactured. See Section B.3.
f.	40 CFR Part 64 - Compliance Assurance Monitoring (CAM)	<u>See d)(3) through d)(5) and e)(1)</u>

(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 maintain a written quality assurance/quality control plan for the continuous opacity monitoring system, designed to ensure continuous valid and representative readings of opacity and compliance with 40 CFR Part 60, Appendix B, Performance Specification 1. The plan shall include, at a minimum, procedures for conducting and recording daily automatic zero/span checks, provisions for conducting a quarterly audit of the continuous opacity monitoring system, and a description of preventive maintenance activities. The plan shall describe step by step procedures for ensuring accurate operation of the continuous opacity monitoring system on a continuous basis. The quality assurance/quality control plan and a logbook dedicated to the continuous opacity monitoring system must be kept on site and available for inspection during regular office hours.
- c. The continuous opacity monitoring system consists of all the equipment used to acquire data and record opacity.

Authority for term: OAC rules 3745-17-07 and 17-08

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain on-site, the document of certification received from the U.S. EPA or the Ohio EPAs Central Office verifying that the continuous opacity monitoring system has been certified to meet the requirements of 40 CFR Part 60, Appendix B, Performance Specification 1. The letter/document of certification shall be made available to the Director (the appropriate Ohio EPA District Office or local air agency) upon request.



Each continuous monitoring system consists of all the equipment used to acquire and record data in units of all applicable standard(s), and includes the sample extraction and transport hardware, sample conditioning hardware, analyzers, and data processing hardware and software.

Authority for term 40 CFR 60.13 and OAC rule 3745-77-07(A)(3)

- (2) The permittee shall operate and maintain the continuous opacity monitoring system to continuously monitor and record the opacity of the particulate emissions from this emissions unit. The continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13.

The permittee shall maintain records of data obtained by the continuous opacity monitoring system including, but not limited to:

- a. percent opacity on an instantaneous (one-minute) and 6-minute block average basis;
- b. results of daily zero/span calibration checks and the magnitude of manual calibration adjustments;
- c. hours of operation of the emissions unit, continuous opacity monitoring system, and control equipment;
- d. the date, time, and hours of operation of the emissions unit without the control equipment and/or the continuous opacity monitoring system;
- e. the date, time, and hours of operation of the emissions unit during any malfunction of the control equipment and/or the continuous opacity monitoring system; as well as,
- f. the reason (if known) and the corrective actions taken (if any) for each such event in (d) and (e).

Authority for term 40 CFR 60.13, 40 CFR Part 64 and OAC rule 3745-77-07(A)(3)

- (3) The CAM Plan for this emissions unit is based on visible emissions observations and the operations and maintenance plan prepared in accordance with 40 CFR Part 63, Subpart LLL. For visible emissions, an excursion is defined as any occasion when visible emissions are observed exiting the baghouse stacks that exceed 20 percent opacity as a six minute average.

The definition of excursion noted above is effective for the duration of this permit, unless revisions are requested by the permittee and approved by Ohio EPA. The permittee may request revisions to the excursion definition above based upon information obtained during future emission tests that demonstrate compliance with the emission limitations for this emissions unit. In addition, approved revisions to the ranges will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of a minor permit modification.



Authority for term: 40 CFR Part 63, Subpart LLL, 40 CFR Part 64, and OAC rule 3745-77-07(A)(3)

- (4) For any excursion that occurs the permittee shall record the following information:
- a. The duration of the excursion;
 - b. A description of any corrective action that was completed;
 - c. The date and time the corrective action was completed; and
 - d. The identification of the personnel who completed the corrective action.

Authority for term: 40 CFR Part 64, and OAC rule 3745-77-07(A)(3)

- (5) If a determination is made by the Administrator or Ohio EPA that the permittee has not used acceptable procedures in response to an excursion or exceedance based on the results of a determination made according to 40 CFR Part 64.7(d)(2), the permittee may be required to develop a Quality Improvement Plan (QIP) according to the specifications of 40 CFR 64.8.

Authority for term: 40 CFR Part 64, and OAC rule 3745-77-07(A)(3)

e) Reporting Requirements

- (1) The permittee shall comply with the following quarterly reporting requirements for the emissions unit and its continuous opacity monitoring system:
- a. Pursuant to the monitoring, record keeping, and reporting requirements for continuous monitoring systems contained in 40 CFR Parts 60.7 and 60.13(h) and the requirements established in this permit, 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 any limitation specified in this permit, 40 CFR Part 60, OAC rule 3745-17-07, and any other applicable rules or regulations. The report shall document the date, commencement and completion times, duration, and magnitude (percent opacity) of each 6-minute block average exceeding the applicable opacity limitation(s), as well as, the reason (if known) and the corrective actions taken (if any) for each exceedance.
 - b. These quarterly reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall include the following:
 - i. the facility name and address;
 - ii. the manufacturer and model number of the continuous opacity monitor;
 - iii. a description of any change in the equipment that comprises the continuous opacity monitoring system (COMS), including any change to the hardware, changes to the software that may affect COMS readings, and/or changes in the location of the COMS sample probe;



- iv. the excess emissions report (EER)*, i.e., a summary of any exceedances during the calendar quarter, as specified above;
- v. the total operating time (hours) of the emissions unit;
- vi. the total operating time of the continuous opacity monitoring system while the emissions unit was in operation;
- vii. the date, time, and duration of any/each malfunction** of the continuous opacity monitoring system, emissions unit, and/or control equipment;
- viii. the date, time, and duration of any downtime** of the continuous opacity monitoring system and/or control equipment while the emissions unit was in operation; and
- ix. the reason (if known) and the corrective actions taken (if any) for each event in (b)(vii) and (viii).

Each report shall address the operations conducted and data obtained during the previous calendar quarter.

* where no exceedance of the opacity limit has occurred or the continuous monitoring system(s) has/have not been inoperative, repaired, or adjusted during the calendar quarter, such information shall be documented in the quarterly EER report

** each downtime and malfunction event shall be reported regardless of whether there is an exceedance of the opacity limit

Authority for term 40 CFR 60.7 40 CFR Part 64 and OAC rule 3745-77-07(A)(3)

f) **Testing Requirements**

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in b) shall be determined in accordance with the following methods:

- a. Emissions Limitation -

Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.

- Applicable Compliance Method -

Ongoing compliance with the opacity limitation contained in this permit, 40 CFR Part 60, and any other applicable standard(s) shall be demonstrated through the data collected as required in the Monitoring and Record keeping Section of this permit; and through demonstration of compliance with the quality assurance/quality control plan, which shall meet the testing and recertification requirements of 40 CFR Part 60.

Authority for term: 40 CFR 60.7 and OAC rule 3745-77-07(C)(1)



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- g) Miscellaneous Requirements
 - (1) None.



7. P906, Coal Reclaim

Operations, Property and/or Equipment Description:

Coal Crushing - Coal crusher (F242), fabric filter F274 and coal mill F218

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.	OAC rule 3745-17-07(A)	Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average.
b.	OAC rule 3745-17-07(B)	See b)(2)a.
c.	OAC rule 3745-17-08(B)	See b)(2)a.
d.	OAC rule 3745-17-11(B)	The particulate emissions from this emissions unit shall not exceed 25.2 pounds per hour. See b)(2)b.
e.	40 CFR Part 60, Subpart Y	Visible fugitive emissions from this emissions unit shall not exceed 20 percent opacity as a six-minute average.

(2) Additional Terms and Conditions

a. These emissions units are not located in an "Appendix A" area as indicated in OAC rule 3745-17-08. Therefore, 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).

b. The 25.2 pounds per hour particulate emissions limitation established according to Table I of OAC rule of 3745-17-11 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.

Authority for term: OAC rules 3745-17-08 and 3745-77-07(A)



c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping 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 these emissions units. 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.

If visible emissions are present, a visible emissions incident has occurred. The observer does not have to document the exact start and end times for the visible emissions incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emissions 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.

Authority for term: OAC rule 3745-77-07(A)(3).

e) Reporting Requirements

- (1) 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 these emissions units; 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.

Authority for term: OAC rule 3745-77-07(A)(3)



f) Testing Requirements

(1) Compliance with the emission limitations in b)(1) shall be determined in accordance with the following methods:

a. Emissions Limitation –

The particulate emissions from this emissions unit shall not exceed 25.2 pounds per hour.

Applicable Compliance Method -

If requested, compliance shall be determined by emission measurements performed in accordance with the procedures specified in OAC rule 3745-17-03(B)(10) and U.S. EPA Reference Method 5 of 40 CFR Part 60, Appendix A.

b. Emissions Limitation -

Visible particulate emissions from these emissions units shall not exceed 20 percent opacity as a six-minute average.

Applicable Compliance Method -

If requested, compliance shall be determined by visible emission evaluations performed in accordance with the procedures specified in OAC rule 3745-17-03(B)(1) and U.S. EPA Reference Method 9 of 40 CFR Part 60, Appendix A.

Authority for term OAC rule 3745-77-07(C)(1)

g) Miscellaneous Requirements

(1) None.



8. P907, Kiln Feed Blending

Operations, Property and/or Equipment Description:

Kiln Feed Preparation, Storage and Transfer - Blending Silo (E1), fabric filter system (E2), enclosed screw conveyors (E27B and E27C) and fabric filter (E22)

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.	OAC rule 3745-17-07(A)	The visible particulate emissions limitations specified by this rule are less stringent than the emissions limitations specified by 40 CFR Part 63, Subpart LLL.
b.	OAC rule 3745-17-07(B)	See b)(2)a.
c.	OAC rule 3745-17-08(B)	See b)(2)a.
d.	OAC rule 3745-17-11(B)	The particulate emissions from this emissions unit shall not exceed 55.4 pounds per hour.
e.	40 CFR Part 63 Subpart LLL	The visible particulate emissions from this emissions unit shall not exhibit opacity greater than 10 percent. See Sections B.2. and B.3.
f.	40 CFR Part 64 - Compliance Assurance Monitoring (CAM)	See d)(1) through d)(3) and e)(1)

(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).



c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) The CAM Plan for this emissions unit is based on visible emissions observations and the operations and maintenance plan prepared in accordance with 40 CFR Part 63, Subpart LLL. For visible emissions, an excursion is defined as any occasion when visible emissions observed exiting the baghouse stacks are not deemed to be from normal operations.

The definition of excursion noted above is effective for the duration of this permit, unless revisions are requested by the permittee and approved by Ohio EPA. The permittee may request revisions to the excursion definition above based upon information obtained during future emission tests that demonstrate compliance with the emission limitations for this emissions unit. In addition, approved revisions to the ranges will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of a minor permit modification.

Authority for term: 40 CFR Part 63, Subpart LLL, 40 CFR Part 64, and OAC rule 3745-77-07(A)(3)

- (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 emissions incident; and
- e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emissions incident has occurred. The observer does not have to document the exact start and end times for the visible emissions incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emissions 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.

Authority for term: OAC rule 3745-17-07(A) and OAC rule 3745-77-07(A)(3)

- (3) If a determination is made by the Administrator or Ohio EPA that the permittee has not used acceptable procedures in response to an excursion or exceedance based on the results of a determination made according to 40 CFR Part 64.7(d)(2), the permittee may be required to develop a Quality Improvement Plan (QIP) according to the specifications of 40 CFR 64.8.

Authority for term: 40 CFR Part 64 and OAC rule 3745-77-07(A)(3)

e) Reporting Requirements

- (1) The permittee shall submit semiannual written reports that identify:
- a. all days during which any visible particulate emissions were observed from the stacks serving this emissions unit; and
 - b. 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.

Authority for term: 40 CFR Part 64 and OAC rule 3745-77-07(A)(3)

f) Testing Requirements

- (1) Compliance with the Emissions Limitations specified in b) shall be determined in accordance with the following methods:

a. Emission Limitation -

Visible particulate emissions from the stack shall not exceed 20 percent opacity as a six-minute average, except as specified by rule.

Applicable Compliance Method -

Compliance with the stack visible particulate emissions limitation shall be determined through visible emissions observations performed in accordance with OAC rule 3745-17-03(B)(1) and U.S. EPA Reference Method 9 of 40 CFR Part 60, Appendix A.

b. Emission Limitation -

The particulate emissions from this emissions unit shall not exceed 55.4 pounds per hour.



Applicable Compliance Method -

Compliance is determined by multiplying the maximum capacity of the equipment (150 tons per hour) by the RACM emission factor of 0.05 pound particulate emissions per ton, (Ohio EPA Reasonably Available Control Measures for Fugitive Dust Sources, Table 2.13-2, August 1983) and then by a control factor of 95%(1 - 0.95) for the fabric filters.

If requested, compliance shall be determined by particulate emissions testing in accordance with U.S. EPA Reference Method 5 of 40 CFR Part 60, Appendix A and OAC rule 3745-17-03(B)(10).

Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(1)]

- g) Miscellaneous Requirements
 - (1) None.



9. P915, Finish Mill Additive Storage and Handling System With Fabric Filter

Operations, Property and/or Equipment Description:

Finish Mill Additive Storage and Handling System - Silo K305 and fabric filter K315.

- 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.	OAC rule 3745-31-05(A)(3) and ORC 3704.03(T) as effective 11/30/01 PTI P0115611 issued November 14, 2013	The particulate emissions from this emissions unit shall not exceed 0.02 grain per dry standard cubic foot of exhaust. Compliance with this rule also includes compliance with the requirements of 40 CFR Part 63, Subpart LLL. See b)(2)a. and b)(2)c.
b.	OAC rule 3745-31-05(A)(3)(b) as effective 12/01/06	See b)(2)b. and b)(2)c.
c.	OAC rule 3745-17-07(A)	The visible emissions limitation established according to this rule is less stringent than the emissions limitation established according to 40 CFR Part 63, Subpart LLL.
d.	OAC rule 3745-17-07(B)	See b)(2)d.
e.	OAC rule 3745-17-08(B)	See b)(2)d.
f.	OAC rule 3745-17-11(B)	The particulate emissions limitation established according to this rule are less stringent the particulate emissions limitation established according to OAC rule 3745-31-05(A)(3) and the voluntary restriction established according to OAC rule 3745-31-05(A)(3)(b).



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
g.	40 CFR Part 63, Subpart LLL	<p>The visible particulate emissions from this emissions unit shall not exhibit opacity greater than 10 percent.</p> <p>See Sections B.2. and B.3.</p>

(2) Additional Terms and Conditions

a. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to Ohio Administrative Code (OAC) paragraph 3745-31-05(A)(3), as effective November 30, 2001, in this permit. On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to the Ohio Revised Code (ORC) changes effective August 3, 2006 (Senate Bill 265 changes), such that BAT is no longer required by State regulations for National Ambient Air Quality Standards (NAAQS) pollutant(s) less than ten tons per year. However, that rule revision has not yet been approved by U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-31-05, the requirement to satisfy BAT still exists as part of the federally-approved SIP for Ohio. Once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05, then these emission limitations/control measures no longer apply.

b. This rule paragraph applies once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the State Implementation Plan.

This PTI for this air contaminant source takes into account the voluntary use of a fabric filter with filtration media capable of limiting particulate emissions to less than 0.02 grain per dry standard cubic foot as proposed by the permittee for the purpose of avoiding the Best Available Technology (BAT) requirements of OAC rule 3745-31-05(A)(3).

c. This emissions unit shall be adequately enclosed such that the collection efficiency is sufficient to eliminate visible particulate emissions at the point of capture. All captured particulate emissions shall be vented to a fabric filter.

d. This emissions unit is not located in an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, the emissions unit is not subject to the reasonably achievable control measures of OAC rule 3745-17-8(B) and the visible emissions requirements of OAC rule 3745-17-07(B).

Authority for term: OAC rules 3745-17-07, 17-08 and 31-05

c) Operational Restrictions

(1) None.



d) Monitoring and/or Recordkeeping 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 and for any visible emissions of fugitive dust from the egress points (i.e., transfer points) 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 emissions incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emissions incident has occurred. The observer does not have to document the exact start and end times for the visible emissions incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emissions 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.

Authority for term: OAC rule 3745-77-07(A)(3)

e) Reporting Requirements

- (1) The permittee shall submit semiannual written reports that identify:
 - a. all days during which any visible particulate emissions were observed from the stack serving this emissions unit;
 - b. all days during which any visible emissions of fugitive dust were observed from the egress points (i.e., transfer points.) serving this emissions unit; and
 - c. any corrective actions taken to minimize or eliminate the visible particulate emissions from the stack and/or visible emissions of fugitive dust.

These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

Authority for term: OAC rule 3745-77-07(A)(3)



f) Testing Requirements

(1) Compliance with the Emissions Limitations specified in b) shall be determined in accordance with the following methods:

a. Emissions Limitation –

The particulate emissions from this emissions unit shall not exceed 0.02 grain per dry standard cubic foot.

Applicable Compliance Method –

If requested, compliance shall be demonstrated according to the requirements of OAC rule 3745-17-03(B)(10) and the procedures of U.S. EPA Reference Method 5 of 40 CFR Part 60, Appendix A.

Authority for term: OAC rule 3745-77-07(C)(1)

g) Miscellaneous Requirements

(1) None.



10. P916, Finish Mill Grinding

Operations, Property and/or Equipment Description:

Finish mill grinding; ball mill and separator - 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

- 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.	OAC rule 3745-31-05(A)(3) PTI 08-3072 issued August 15, 2000	<p>The particulate emissions from the fabric filters installed as part of this emissions unit shall not exceed 0.02 grain per dry standard cubic foot of exhaust.</p> <p>The particulate emissions from this emissions unit shall not exceed 26.2 pounds per hour, 629 pounds per day and 114.8 tons per year.</p> <p>Visible particulate emissions from the stacks serving this emissions unit shall not exceed 10 percent opacity as a three-minute average.</p> <p>See b)(2)a.</p>
b.	OAC rule 3745-17-07(A)	The visible particulate emissions limitation established according to this rule is less stringent than the visible particulate emissions limitation established according to OAC rule 3745-31-05(A)(3).



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	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
c.	OAC rule 3745-17-11(B)	The particulate emissions limitation specified by this rule is less stringent than the particulate emissions limitation established according to OAC rule 3745-31-05(A)(3).
d.	40 CFR Part 63, Subpart LLL	The visible particulate emissions from this emissions unit shall not exhibit opacity greater than 10 percent. See Sections B.2. and B.3.
e.	40 CFR Part 64 - Compliance Assurance Monitoring (CAM)	See d)(2) through d)(4) and e)(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.

c) Operational Restrictions

- (1) The final production of cement shall not exceed 1,105,104 tons on a rolling 365 day basis.

d) Monitoring and/or Recordkeeping 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 CAM Plan for this emissions unit is based on visible emissions observations and the operations and maintenance plan prepared in accordance with 40 CFR Part 63, Subpart LLL. For visible emissions, an excursion is defined as any occasion when visible emissions observed exiting the baghouse stacks are not deemed to be from normal operations.

The definition of excursion noted above is effective for the duration of this permit, unless revisions are requested by the permittee and approved by Ohio EPA. The permittee may request revisions to the excursion definition above based upon information obtained during future emission tests that demonstrate compliance with the emission limitations



for this emissions unit. In addition, approved revisions to the ranges will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of a minor permit modification.

Authority for term: 40 CFR Part 63, Subpart LLL, 40 CFR Part 64, and OAC rule 3745-77-07(A)(3)

- (3) 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 emissions incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emissions incident has occurred. The observer does not have to document the exact start and end times for the visible emissions incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emissions 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.

Authority for term: 40 CFR Part 64, OAC rule 3745-17-07(A) and OAC rule 3745-77-07(A)(3)

- (4) If a determination is made by the Administrator or Ohio EPA that the permittee has not used acceptable procedures in response to an excursion or exceedance based on the results of a determination made according to 40 CFR Part 64.7(d)(2), the permittee may be required to develop a Quality Improvement Plan (QIP) according to the specifications of 40 CFR 64.8.

Authority for term: 40 CFR Part 64 and OAC rule 3745-77-07(A)(3)

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

Authority for term: PTI 08-3072 and OAC rule 3745-77-07(A)(3)

- (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.

Authority for term: PTI 08-3072 and OAC rule 3745-77-07(A)(3)

- (3) The permittee shall submit semiannual written reports that identify:
 - a. all days during which any visible particulate emissions were observed from the stack serving this emissions unit; and
 - b. 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.

Authority for term: 40 CFR Part 64 and OAC rule 3745-77-07(A)(3)

f) Testing Requirements

- (1) Compliance with the emission limitations in b)(1) shall be determined in accordance with the following methods:

- a. Emissions Limitation –

The particulate emissions from the fabric filters installed as part of this emissions unit shall not exceed 0.02 grain per dry standard cubic foot of exhaust.

Applicable Compliance Method -

If requested, compliance shall be determined by particulate emissions testing in accordance with U.S. EPA Reference Method 5 of 40 CFR Part 60, Appendix A and OAC rule 3745-17-03(B)(10).

- b. Emissions Limitation –

The particulate emissions from this emissions unit shall not exceed 26.2 pounds per hour.

Applicable Compliance Method -

If requested, compliance shall be determined by particulate emissions testing in accordance with U.S. EPA Reference Method 5 of 40 CFR Part 60, Appendix A and OAC rule 3745-17-03(B)(10).



Also, the hourly allowable particulate emissions limitation was established as follows:

- i. for stack emissions - multiply the maximum grain loading of 0.020 grain/dscf by the maximum exhaust gases flow rate (151,700 dscf/minute) (from fabric filters K511, K541, K542, K576 and K523, combined), by 60 minutes/hour and 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 particulate emissions of 0.15 pound/ton (from an engineering study completed by the company) and 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 particulate emissions of 0.0029 pound/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 particulate emissions of 0.00099 pound/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. The sum of the stack and fugitive particulate emissions (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. Emissions Limitation –

The particulate emissions from this emissions unit shall not exceed 629 pounds per day.

Applicable Compliance Method -

As long as compliance with the hourly particulate emissions limitation is maintained, compliance with the daily particulate emissions limitation shall be ensured (the daily limitation was determined by multiplying the hourly limitation by 24 hours per day).



d. Emissions Limitation –

The particulate emissions from this emissions unit shall not exceed 114.8 tons per year.

Applicable Compliance Method -

As long as compliance with the daily particulate emissions limitation is maintained, compliance with the annual particulate emissions limitation shall be ensured (the annual limitation was determined by multiplying the daily limitation by 365 days per year, and then dividing by 2000 pounds per ton).

e. Emissions Limitation –

Visible particulate emissions from the stack serving this emissions unit shall not exceed 10 percent opacity as a three-minute average.

Applicable Compliance Method -

If requested, compliance shall be determined by particulate emissions testing in accordance with U.S. EPA Reference Method 9 of 40 CFR Part 60, Appendix A and OAC rule 3745-17-03(B)(1).

Authority for term: PTI 08-3072 and OAC rule 3745-77-07(C)(1)

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

- a. The emission testing shall be conducted within 1 year after permit issuance and on a recurring 60-month schedule.
- b. The emission testing shall be conducted to demonstrate compliance with the 0.02 grain per dry standard cubic foot particulate emissions limitation.
- c. Testing shall be completed on baghouses K511, K541 and K542
- d. Testing shall be completed according to U.S. Reference Methods 1 through 5 of 40 CFR, Part 60, Appendix A and OAC rule 3745-17-03(B)(10).
- e. The tests 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 60 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).



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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.

Authority for term: OAC rule 3745-77-07(C)(1)

g) Miscellaneous Requirements

(1) None.



11. Kiln Feed Additives: P925

EU ID	Operations, Property and/or Equipment Description
P925	Fly Ash and Silica Material Handling and Storage; Hopper E160 Bucket Elevator E162, Belt Conveyor E161, Silo E163 with Fabric Filter E164, & Weigh Feeder E165; Screw Conveyor E166

- 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.	OAC rule 3745-31-05(A)(3) PTI 08-04127 issued December 27, 2001	<p>The fugitive particulate emissions from this emissions unit shall not exceed 3.63 pounds per hour.</p> <p>Visible fugitive particulate emissions this emissions unit shall not exceed 10 percent opacity as a six-minute average.</p> <p>The requirements of this rule also includes compliance with the requirements of OAC rule 3745-31-05(D) and 40 CFR Part 63, Subpart LLL.</p> <p>See b)(2)a.</p>
b.	OAC rule 3745-31-05(D) PTI 08-04127 issued December 27, 2001	<p>The fugitive particulate emissions from this emissions unit shall not exceed 4.4 tons on a rolling 12-month basis.</p> <p>See b)(2)b. and c)(1).</p>
c.	OAC rule 3745-17-07(B)	See b)(2)c.
d.	OAC rule 3745-17-08(B)	See b)(2)c.
e.	40 CFR Part 63, Subpart LLL	<p>The visible particulate emissions from this emissions unit shall not exhibit opacity greater than 10 percent.</p> <p>See Sections B.2. and B.3.</p>



(2) Additional Terms and Conditions

- a. The 3.63 pounds per hour particulate emissions limitation was established 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 particulate emissions, 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. These emissions units are not located in an "Appendix A" area as indicated in OAC rule 3745-17-08. Therefore, 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).

c) Operational Restrictions

- (1) The maximum annual production rate for this emissions unit shall not exceed 303,779 tons on a rolling 12-month basis.

Authority for term: OAC rule 3745-31-05(D) and PTI 08-04127

d) Monitoring and/or Recordkeeping 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 production rate, in tons, (the sum of the monthly production rates for the previous 12-months); and
- c. the rolling 12-month particulate emissions rate (the sum of the monthly particulate emissions rates for the previous 12 months determined by multiplying the monthly production rate from d)(1)b. 0.029 pound particulate per ton material loaded* divided by 2000 pounds per ton.

* USEPA reference document AP-42, Table 11.12-2, dated 10/86, reformatted 1/95.

Authority for term: OAC rule 3745-77-07(A)(3) and PTI 08-08-04127

- (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.

Authority for term: OAC rule 3745-31-05(A)(3), PTI 08-08-04127

e) Reporting Requirements

- (1) Emissions Unit P925: The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. alleceedances of the rolling, 12-month production limitation of 303,779 tons.
 - b. alleceedances of the rolling, 12-month particulate emissions limitation of 4.4 tons.

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

Authority for term: OAC rule 3745-77-07(A)(3) and PTI 08-08-04127

- (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.

Authority for term: OAC rule 3745-77-07(A)(3) and PTI 08-08-04127

f) Testing Requirements

- (1) Compliance with the emission limitations in b)(1) shall be determined in accordance with the following methods:
 - a. Emissions Limitation –
Emissions Unit P925: The fugitive particulate emissions from this emissions unit shall not exceed 3.63 pounds per hour.



Applicable Compliance Method -

This emissions limitation was developed by multiplying the maximum hourly handling rate of 125 tons by the emission factor of 0.0029 pound particulate per ton material loaded, from U.S. EPA reference document AP-42, Table 11.19.2-2, (1/95).

b. Emissions Limitation -

Emissions Unit P925: The fugitive particulate emissions from this emissions unit shall not exceed 4.4 tons on a rolling 12-month basis.

Applicable Compliance Method -

Compliance shall be determined based on the record keeping requirements of d)(1) and the sum of the monthly particulate emissions rates for the previous 12 months.

c. Emissions Limitation -

Emissions Unit P925: Visible fugitive particulate emissions this emissions unit shall not exceed 10 percent opacity as a six-minute average.

Applicable Compliance Method -

If requested, compliance shall be determined by visible emission evaluations performed in accordance with the procedures specified in OAC rule 3745-17-03(B)(3) and U.S. EPA Reference Method 9 of 40 CFR Part 60, Appendix A.

g) Miscellaneous Requirements

- (1) None.



12. Emissions Unit Group - Clinker Storage & Handling: P911, P912,P913,P914,

EU ID	Operations, Property and/or Equipment Description
P911	Raw material unloading and storage - 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
P912	Clinker dome storage - Clinker Dome Storage which includes F109 pan conveyor, F111 clinker dome, F107 fabric filter, F117 fabric filter, and F124A fabric filter
P913	Clinker bin storage - Clinker Bin Storage which includes K301 feed bin, K302 feed bin, K121 belt conveyor, K112 fabric filter, and F119A fabric filter
P914	Feed bin extraction - 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

- 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.	OAC rule 3745-31-05(A)(3) PTI 08-03072 issued August 15, 2000	<p>The particulate emissions from the fabric filters serving these emissions units shall not exceed 0.02 grain per dry standard cubic foot of exhaust.</p> <p>Visible particulate emissions from the stacks serving these emissions units shall not exceed 5 percent opacity as a six-minute average.</p> <p>Visible fugitive particulate emissions from these emissions units shall not exceed 5 percent opacity as a three-minute average.</p> <p><u>Emissions Unit P911:</u> The particulate emissions from this emissions unit shall not exceed 0.7 pound per hour, 16.8 pounds per day and 3.1 tons per year, including fugitive dust.</p>



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	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		<p><u>Emissions Unit P912:</u> The particulate emissions from this emissions unit shall not exceed 3.95 pounds per hour, 94.9 pounds per day and 17.3 tons per year including fugitive dust.</p> <p><u>Emissions Unit P913:</u> The particulate emissions from this emissions unit shall not exceed 3.0 pounds per hour, 72.0 pounds per day and 13.14 tons per year including fugitive dust.</p> <p><u>Emissions Unit P914:</u> The particulate emissions from this emissions unit shall not exceed 3.16 pounds per hour, 75.9 pounds per day and 13.9 tons per year including fugitive dust.</p> <p>See b)(2)a. and b)(2)b.</p>
b.	OAC rule 3745-17-07(A)	The visible particulate emissions limitation established according to this rule are less stringent than the visible particulate emissions limitation established according to OAC rule 3745-31-05(A)(3).
c.	OAC rule 3745-17-07(B)	See b)(2)c.
d.	OAC rule 3745-17-08(B)	See b)(2)c.
e.	OAC rule 3745-17-11(B)	The particulate emissions limitations established according to this rule are less stringent than the particulate emissions limitations established according to OAC rule 3745-31-05(A)(3).
f.	40 CFR Part 63, Subpart LLL	<p>The visible particulate emissions from this emissions unit shall not exhibit opacity greater than 10 percent.</p> <p>See Sections B.2. and B.3.</p>
g.	40 CFR Part 64 - Compliance Assurance Monitoring (CAM)	See d)(2) through d)(4) and e)(3)

(2) Additional Terms and Conditions

- a. Emissions Unit P911: 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 particulate emissions shall be vented to a fabric filter system.

Emissions Unit P912: The clinker storage dome 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 particulate emissions shall be vented to a fabric filter system.

Emissions Unit P913: 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 particulate emissions shall be vented to a fabric filter system.

Emissions Unit P914: 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 particulate emissions shall be vented to a fabric filter system.

Authority for term: OAC rule 3745-31-05(D) and PTI 08-03072

- b. The permittee shall comply with the preventative maintenance and malfunction abatement plan as required in PTI #08-03072.
- c. These emissions units are not located in an "Appendix A" area as indicated in OAC rule 3745-17-08. Therefore, 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).

c) Operational Restrictions

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

Authority for term: OAC rule 3745-31-05(D) and PTI 08-03072

d) Monitoring and/or Recordkeeping 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.

Authority for term: OAC rule 3745-77-07(A)(3) and PTI 08-03072

- (2) The CAM Plan for these emissions units is based on visible emissions observations and the operations and maintenance plan prepared in accordance with 40 CFR Part 63, Subpart LLL. For visible emissions, an excursion is defined as any occasion when visible emissions observed exiting the baghouse stacks are not deemed to be from normal operations.



The definition of excursion noted above is effective for the duration of this permit, unless revisions are requested by the permittee and approved by Ohio EPA. The permittee may request revisions to the excursion definition above based upon information obtained during future emission tests that demonstrate compliance with the emission limitations for this emissions unit. In addition, approved revisions to the ranges will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of a minor permit modification.

Authority for term: 40 CFR Part 63, Subpart LLL, 40 CFR Part 64, and OAC rule 3745-77-07(A)(3)

- (3) The permittee shall perform daily checks, when these emissions units are in operation and when the weather conditions allow, for any visible particulate emissions from the stacks serving these emissions units. 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.

If visible emissions are present, a visible emissions incident has occurred. The observer does not have to document the exact start and end times for the visible emissions incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emissions 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.

Authority for term: 40 CFR Part 64, OAC rule 3745-77-07(A)(3) and PTI 08-03072

- (4) If a determination is made by the Administrator or Ohio EPA that the permittee has not used acceptable procedures in response to an excursion or exceedance based on the results of a determination made according to 40 CFR Part 64.7(d)(2), the permittee may be required to develop a Quality Improvement Plan (QIP) according to the specifications of 40 CFR 64.8.

Authority for term: 40 CFR Part 64 and OAC rule 3745-77-07(A)(3)



- (5) The permittee shall perform daily checks, when these emissions units are in operation and when the weather conditions allow, for any visible fugitive particulate emissions at the points of capture associated with these emissions units. 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.

If visible emissions are present, a visible emissions incident has occurred. The observer does not have to document the exact start and end times for the visible emissions incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emissions 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.

Authority for term: OAC rule 3745-77-07(A)(3) and PTI 08-03072

e) Reporting Requirements

- (1) The permittee shall submit quarterly deviation (excursion) reports that identify the following:
- a. all exceedances of the rolling, 365-day production limitation of 1,105,104 tons.

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

Authority for term: OAC rule 3745-77-07(A)(3) and PTI 08-08-03072

- (2) The permittee shall submit annual reports that summarize the actual annual cement production rate, in tons, for this emissions unit. The reports shall be submitted by January 31 of each year and shall cover the previous calendar year.

Authority for term: OAC rule 3745-77-07(A)(3) and PTI 08-08-03072



- (3) 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.

Authority for term: OAC rule 3745-77-07(A)(3) and PTI 08-08-03072

- (4) 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 these emissions units; 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.

Authority for term: OAC rule 3745-77-07(A)(3) and PTI 08-08-03072

f) **Testing Requirements**

- (1) Compliance with the emission limitations in b)(1) shall be determined in accordance with the following methods:

a. Emissions Limitation –

The particulate emissions from the fabric filters serving these emissions units shall not exceed 0.02 grain per dry standard cubic foot of exhaust.

Applicable Compliance Method -

If requested, compliance shall be determined by emission measurements performed in accordance with the procedures specified in OAC rule 3745-17-03(B)(10) and U.S. EPA Reference Method 5 of 40 CFR Part 60, Appendix A.

b. Emissions Limitation -

Visible particulate emissions from the stacks serving these emissions units shall not exceed 5 percent opacity as a six-minute average.



Applicable Compliance Method -

If requested, compliance shall be determined by visible emission evaluations performed in accordance with the procedures specified in OAC rule 3745-17-03(B)(1) and U.S. EPA Reference Method 9 of 40 CFR Part 60, Appendix A.

c. Emissions Limitation -

Visible fugitive particulate emissions from these emissions units shall not exceed 5 percent opacity as a three-minute average.

Applicable Compliance Method -

If requested, compliance shall be determined by visible emission evaluations performed in accordance with the procedures specified in OAC rule 3745-17-03(B)(3) and U.S. EPA Reference Method 9 of 40 CFR Part 60, Appendix A.

d. Emissions Limitation -

Emissions Unit P911: The particulate emissions from this emissions unit shall not exceed 0.7 pound per hour, 16.8 pounds per day and 3.1 tons per year, including fugitive dust.

Applicable Compliance Method -

The hourly allowable particulate emissions limitation was established as follows:

- i. for stack emissions - multiply the maximum grain loading of 0.020 grain particulate/dscf by the maximum exhaust gases flow rate (3,500 dscf/minute) (from dust collectors K362 and K371, combined), by 60 minutes/hour and divide by 7000 grains/pound;
- ii. for fugitive emissions - multiply the maximum hourly production rate (12 tons/hour) by the emission factor for fugitive particulate emissions of 0.0029 pound/ton (AP-42 Table 11.19.2-2 (1/95)); and
- iii. the sum of stack and fugitive particulate emissions (i. + ii.).

If requested, compliance shall be determined by emission measurements performed in accordance with the procedures specified in OAC rule 3745-17-03(B)(10) and U.S. EPA Reference Method 5 of 40 CFR Part 60, Appendix A.

As long as compliance with the hourly particulate emissions limitation is maintained, compliance with the daily particulate emissions limitation will be ensured (0.7 pound/hour x 24 hours/day).

As long as compliance with the daily particulate emissions limitation is maintained, compliance with the annual particulate emissions limitation will be ensured (16.8 pounds/day x 365 days/year / 2,000 pounds/ton).



e. Emissions Limitation –

Emissions Unit P912: The particulate emissions from this emissions unit shall not exceed 3.95 pounds per hour, 94.9 pounds per day and 17.3 tons per year, including fugitive dust.

Applicable Compliance Method -

The hourly allowable particulate emissions limitation was established as follows:

- i. for stack emissions - multiply the maximum grain loading of 0.020 grain/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 divide by 7,000 grains/pound.
- ii. for fugitive emissions -
 - (a) multiply the maximum hourly production rate (247 tons/hour) (for clinker transferred to the dome) by the emission factor for fugitive particulate emissions of 0.15 pound/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/hour) (for clinker transferred out of the dome) by the emission factor for fugitive particulate emissions of 0.15 pound/ton (from an engineering study completed by the company), and multiply by a control factor of (1 - 0.995);**
 - (c) the sum of(a) + (b); and
- iii. the sum of stack and fugitive particulate emissions (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

If requested, compliance shall be determined by emission measurements performed in accordance with the procedures specified in OAC rule 3745-17-03(B)(10) and U.S. EPA Reference Method 5 of 40 CFR Part 60, Appendix A.

As long as compliance with the hourly particulate emissions limitation is maintained, compliance with the daily particulate emissions limitation will be ensured (3.95 pounds/hour x 24 hours/day).

As long as compliance with the daily particulate emissions limitation is maintained, compliance with the annual particulate emissions limitation will be ensured (94.9 pounds/day x 365 days/year / 2,000 pounds/ton).



f. Emissions Limitation –

Emissions Unit P913: The particulate emissions from this emissions unit shall not exceed 3.00 pounds per hour, 72.0 pounds per day and 13.14 tons per year, including fugitive dust. ..

Applicable Compliance Method –

The hourly allowable particulate emissions limitation was established as follows:

- i. for stack emissions - multiply the maximum grain loading of 0.020 grain/dscf by the maximum exhaust gas flow rate (6,400 dscf/minute) (from dust collectors K112 and F119A, combined), by 60 minutes/hour and divide by 7,000 grains/pound;
- ii. for fugitive emissions -
 - (a) multiply the maximum hourly through put (12 tons/hour) (for rock and gypsum transferred to the bucket elevator) by the emission factor for fugitive particulate emissions of 0.0029 pound/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/hour) (for rock and gypsum transferred to the clinker bins) by the emission factor for fugitive particulate emissions of 0.0029 pound/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/hour) (for clinker transferred to the bins) by the emission factor for fugitive particulate emissions of 0.15 pound/ton (from an engineering study completed by the company) and multiply by a control factor of (1 - 0.95);***.
 - (d) The sum of (a) + (b) + (c); and
- iii. The sum of stack and fugitive particulate emissions (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

If requested, compliance shall be determined by emission measurements performed in accordance with the procedures specified in OAC rule 3745-17-03(B)(10) and U.S. EPA Reference Method 5 of 40 CFR Part 60, Appendix A.



As long as compliance with the hourly particulate emissions limitation is maintained, compliance with the daily particulate emissions limitation will be ensured (3.0 pounds/hour x 24 hours/day).

As long as compliance with the daily particulate emissions limitation is maintained, compliance with the annual particulate emissions limitation will be ensured (72.0 pounds/day x 365 days/year / 2,000 pounds/ton).

g. Emissions Limitation –

Emissions Unit P914: The particulate emissions from this emissions unit shall not exceed 3.16 pounds per hour, 75.9 pounds per day and 13.9 tons per year, including fugitive dust.

Applicable Compliance Method –

The hourly allowable particulate emissions limitation was established as follows:

- i. for stack emissions - multiply the maximum grain loading of 0.020 gr /dscf by the maximum exhaust gases flow rate (7,600 dscf/minute) (from dust collectors K411, K412 and K113, combined), by 60 minutes/hour, and divide by 7,000 grains/pound;
- ii. for fugitive emissions –
 - (a) multiply the maximum hourly through put (24 tons/hour) (for rock and gypsum handled) by the emission factor for fugitive particulate emissions of 0.0029 pound/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/hour) (for clinker handled) by the emission factor for fugitive particulate emissions of 0.15 pound/ton (from an engineering study completed by the company) and multiply by a control factor of (1 - 0.95);**
 - (c) the sum of(a) +(b); and
- iii. the sum of stack and fugitive particulate emissions (i. + ii.)..

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

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

If requested, compliance shall be determined by emission measurements performed in accordance with the procedures specified in OAC rule 3745-17-03(B)(10) and U.S. EPA Reference Method 5 of 40 CFR Part 60, Appendix A.

As long as compliance with the hourly particulate emissions limitation is maintained, compliance with the daily particulate emissions limitation will be ensured (3.16 pounds/hour x 24 hours/day).



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As long as compliance with the daily particulate emissions limitation is maintained, compliance with the annual particulate emissions limitation will be ensured (75.9 pounds/day x 365 days/year / 2,000 pounds/ton).

Authority for term: OAC rule 3745-77-07(C)(1), and PTI 08-03072

g) Miscellaneous Requirements

(1) None.



13. Emissions Unit Group -Cement handling and storage

EU ID	Operations, Property and/or Equipment Description
P918	Cement storage in silos - cement silos (L301 to L308), airslide conveyors (L221A to L228A) and fabric filters (L211)
P919	Bulk cement loading - airslide conveyors, L321A to L326A, L331A, and L332A, loading spouts, L401 and L402, and fabric filters L411 and L412

- 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.	OAC rule 3745-31-05(A)(3) PTI 08-03072 issued August 15, 2000	<p>The particulate emissions from the fabric filters serving these emissions units shall not exceed 0.02 grain per dry standard cubic foot of exhaust.</p> <p>Visible particulate emissions from the stacks serving these emissions units shall not exceed 5 percent opacity as a six-minute average.</p> <p>Visible fugitive particulate emissions from these emissions units shall not exceed 5 percent opacity as a three-minute average.</p> <p><u>Emissions Unit P918:</u> The particulate emissions from this emissions unit shall not exceed 1.60 pounds per hour, 38.4 pounds per day and 7.0 tons per year including fugitive dust.</p>



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	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		<p><u>Emissions Unit P919:</u> The particulate emissions from this emissions unit shall not exceed 1.4 pounds per hour, 33.6 pounds per day and 6.13 tons per year including fugitive dust.</p> <p>See b)(2)a. and b)(2)b.</p>
b.	OAC rule 3745-17-07(A)	The visible particulate emissions limitation established according to this rule is less stringent than the visible particulate emissions limitation established according to OAC rule 3745-31-05(A)(3).
c.	OAC rule 3745-17-07(B)	See b)(2)c.
d.	OAC rule 3745-17-08(B)	See b)(2)c.
e.	OAC rule 3745-17-11(B)	The particulate emissions limitations established according to this rule are less stringent than the particulate emissions limitations established according to OAC rule 3745-31-05(A)(3).
f.	40 CFR Part 63, Subpart LLL	<p>The visible particulate emissions from this emissions unit shall not exhibit opacity greater than 10 percent.</p> <p>See Sections B.2. and B.3.</p>
g.	40 CFR Part 64 - Compliance Assurance Monitoring (CAM)	<u>Emissions Unit P918:</u> See d)(2) through d)(4) and e)(3)

(2) Additional Terms and Conditions

- a. These emissions units 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 particulate emissions shall be vented to a fabric filter system.
- b. The permittee shall comply with the preventative maintenance and malfunction abatement plan as required in PTI #08-03072.
- c. These emissions units are not located in an "Appendix A" area as indicated in OAC rule 3745-17-08. Therefore, 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).



c) Operational Restrictions

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

Authority for term: OAC rule 3745-31-05(D) and PTI 08-03072

d) Monitoring and/or Recordkeeping 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.

Authority for term: OAC rule 3745-77-07(A)(3) and PTI 08-03072

- (2) Emissions Unit P918: The CAM Plan for this emissions unit is based on visible emissions observations and the operations and maintenance plan prepared in accordance with 40 CFR Part 63, Subpart LLL. For visible emissions, an excursion is defined as any occasion when visible emissions observed exiting the baghouse stacks are not deemed to be from normal operations.

The definition of excursion noted above is effective for the duration of this permit, unless revisions are requested by the permittee and approved by Ohio EPA. The permittee may request revisions to the excursion definition above based upon information obtained during future emission tests that demonstrate compliance with the emission limitations for this emissions unit. In addition, approved revisions to the ranges will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of a minor permit modification.

Authority for term: 40 CFR Part 63, Subpart LLL, 40 CFR Part 64, and OAC rule 3745-77-07(A)(3)

- (3) The permittee shall perform daily checks, when these emissions units are in operation and when the weather conditions allow, for any visible particulate emissions from the stacks serving these emissions units. 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.



If visible emissions are present, a visible emissions incident has occurred. The observer does not have to document the exact start and end times for the visible emissions incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emissions 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.

Authority for term: 40 CFR Part 64, OAC rule 3745-77-07(A)(3) and PTI 08-02136

- (4) Emissions Unit P918: If a determination is made by the Administrator or Ohio EPA that the permittee has not used acceptable procedures in response to an excursion or exceedance based on the results of a determination made according to 40 CFR Part 64.7(d)(2), the permittee may be required to develop a Quality Improvement Plan (QIP) according to the specifications of 40 CFR 64.8.

Authority for term: 40 CFR Part 64, OAC rule 3745-77-07(A)(3) and PTI 08-03072

- (5) The permittee shall perform daily checks, when these emissions units are in operation and when the weather conditions allow, for any visible fugitive particulate emissions at the points of capture associated with these emissions units. 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.

If visible emissions are present, a visible emissions incident has occurred. The observer does not have to document the exact start and end times for the visible emissions incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emissions 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.

Authority for term: OAC rule 3745-77-07(A)(3) and PTI 08-03072



e) Reporting Requirements

- (1) The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. allexceedances of the rolling, 365-day production limitation of 1,105,104 tons.

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

Authority for term: OAC rule 3745-77-07(A)(3) and PTI 08-03072

- (2) The permittee shall submit annual reports that summarize the actual annual cement production rate, in tons, for this emissions unit. The reports shall be submitted by January 31 of each year and shall cover the previous calendar year.

Authority for term: OAC rule 3745-77-07(A)(3) and PTI 08-03072

- (3) The permittee shall submit semiannual written reports that:
 - a. all days during which any visible particulate emissions were observed from the stack serving this emissions unit;
 - b. identify all days during which any visible fugitive particulate emissions were observed at the points of capture associated with these emissions units; and
 - c. 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.

Authority for term: OAC rule 3745-77-07(A)(3) and PTI 08-03072

f) Testing Requirements

- (1) Compliance with the emission limitations in b)(1) shall be determined in accordance with the following methods:
 - a. Emissions Limitation –

The particulate emissions from the fabric filters serving these emissions units shall not exceed 0.02 grain per dry standard cubic foot of exhaust.



Applicable Compliance Method -

If requested, compliance shall be determined by emission measurements performed in accordance with the procedures specified in OAC rule 3745-17-03(B)(10) and U.S. EPA Reference Method 5 of 40 CFR Part 60, Appendix A.

b. Emissions Limitation -

Visible particulate emissions from the stacks serving these emissions units shall not exceed 5 percent opacity as a six-minute average.

Applicable Compliance Method -

If requested, compliance shall be determined by visible emission evaluations performed in accordance with the procedures specified in OAC rule 3745-17-03(B)(1) and U.S. EPA Reference Method 9 of 40 CFR Part 60, Appendix A.

c. Emissions Limitation -

Visible fugitive particulate emissions these emissions units shall not exceed 5 percent opacity as a three-minute average.

Applicable Compliance Method -

If requested, compliance shall be determined by visible emission evaluations performed in accordance with the procedures specified in OAC rule 3745-17-03(B)(3) and U.S. EPA Reference Method 9 of 40 CFR Part 60, Appendix A.

d. Emissions Limitation -

Emissions Unit P918: The particulate emissions from this emissions unit shall not exceed 1.6 pound per hour, 38.4 pounds per day and 7.0 tons per year, including fugitive dust.

Applicable Compliance Method -

The hourly allowable particulate emissions limitation was established as follows:

- i. for stack emissions - multiply the maximum grain loading of 0.020 grain particulate/dscf by the maximum exhaust gases flow rate (8,250 dscf/minute) (from dust collector L211), by 60 minutes/hour, and divide by 7000 grains/pound;
- ii. for fugitive emissions - multiply the maximum hourly production rate (126 tons/hour) by the emission factor for fugitive particulate emissions of 0.00099 pound/ton (AP-42 Table 11.19.2-2 (1/95)); and
- iii. the sum of stack and fugitive particulate emissions (i. + ii.)..



If requested, compliance shall be determined by emission measurements performed in accordance with the procedures specified in OAC rule 3745-17-03(B)(10) and U.S. EPA Reference Method 5 of 40 CFR Part 60, Appendix A.

As long as compliance with the hourly particulate emissions limitation is maintained, compliance with the daily particulate emissions limitation will be ensured (1.6 pound/hour x 24 hours/day).

As long as compliance with the daily particulate emissions limitation is maintained, compliance with the annual particulate emissions limitation will be ensured (38.4 pounds/day x 365 days/year / 2,000 pounds/ton).

e. Emissions Limitation –

Emissions Unit P919: The particulate emissions from this emissions unit shall not exceed 1.4 pound per hour, 33.6 pounds per day and 6.13 tons per year, including fugitive dust.

Applicable Compliance Method -.

The hourly allowable particulate emissions limitation was established as follows:

- i. for stack emissions - multiply the maximum grain loading of 0.020 grain/dscf by the maximum exhaust gases flow rate (5,776 dscf/minute) (from dust collectors L411 and L412, combined), by 60 minutes/hour, and divide by 7000 grains/pound;
- ii. for fugitive emissions - multiply the maximum hourly throughput (378 tons per hour) for the cement transfer points associated with this emissions by the emission factor for fugitive particulate emissions 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. the sum of stack and fugitive particulate emissions (i. + ii.)..

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

If requested, compliance shall be determined by emission measurements performed in accordance with the procedures specified in OAC rule 3745-17-03(B)(10) and U.S. EPA Reference Method 5 of 40 CFR Part 60, Appendix A.

As long as compliance with the hourly particulate emissions limitation is maintained, compliance with the daily particulate emissions limitation will be ensured (1.40 pounds/hour x 24 hours/day).

As long as compliance with the daily particulate emissions limitation is maintained, compliance with the annual particulate emissions limitation will be ensured (33.6 pounds/day x 365 days/year / 2,000 pounds/ton).

Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-03072



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- g) Miscellaneous Requirements
 - (1) None.



14. Emissions Unit Group - Cement packaging: P932,P933

EU ID	Operations, Property and/or Equipment Description
P932	Colored Cement Packing Line - with four cement storage bins (TK01 - TK04), five pigment storage bins (BN06 - BN10), four shaker screens (SR01 SR04), ten screw conveyors (SC01- SC10), five loss-in-weight feeders (KT01-KT05), bucket elevator (BE02), 4 ton weigh hopper, pigment surge bin(BN05), color mixer(MX01), four spout in-line bagging system (BN01), waste cement reclamation line, pneumatic truck unloading system, nine bin vent filters (BV01-BV04 and BV06-BV10) and fabric filter (DF02)
P933	Gray Cement Packing Line with cement storage bin (TK05), 2 distribution boxes (DB05 and DB06), shaker screen (SR05), 4 air slides (AGC18, AGC19, AGC21, AGC22), loss-in-weight feeder (KT06), packer surge bins (BN02, BN03), screw conveyor SC11, bucket elevator (BE03), waste cement reclamation line, pneumatic truck unloading system, bin vent filter (BV05) and fabric filter (DF03)

- 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.	OAC rule 3745-31-05(A)(3) PTI 08-04737 issued March 21, 2006	The particulate emissions from the fabric filters serving these emissions units shall not exceed 0.010 grain per dry standard cubic foot of exhaust and there shall be no visible particulate emissions from the outlet. Compliance with this rule also includes compliance with 40 CFR Part 63, subpart LLL. <u>Emissions Unit P932:</u> The particulate emissions from this emissions unit shall not exceed 1.76 pounds per hour and 7.51 tons per year.



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		<p><u>Emissions Unit P933:</u> The particulate emissions from this emissions unit shall not exceed 1.31 pounds per hour and 5.71 tons per year.</p> <p>See b)(2)a. and b)(2)b.</p>
b.	OAC rule 3745-17-07(A)	The visible emissions limitation established according to this rule is less stringent than the visible emissions limitation established according to OAC rule 3745-31-05(A)(3).
c.	OAC rule 3745-17-07(B)	See b)(2)c.
d.	OAC rule 3745-17-08(B)	See b)(2)c.
e.	OAC rule 3745-17-11(B)	The particulate emissions limitation established according to this rule are less stringent than the particulate emissions limitation established according to OAC rule 3745-31-05(A)(3).
f.	40 CFR Part 63, Subpart LLL	<p>The visible particulate emissions from this emissions unit shall not exhibit opacity greater than 10 percent.</p> <p>See Sections B.2. and B.3.</p>
g.	40 CFR Part 64 – Compliance Assurance Monitoring (CAM)	See d)(2) through d)(4) and e)(2).

(2) Additional Terms and Conditions

- a. Emissions Unit P932: The 1.76 pounds per hour limitation was established to reflect the potential to emit for the emission unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.

Emissions Unit P933: The 1.31 pounds per hour limitation was established to reflect the potential to emit for the emission unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.
- b. This 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.
- c. These emissions units are not located in an "Appendix A" area as indicated in OAC rule 3745-17-08. Therefore, 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).



c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall perform daily checks, when these emissions units are in operation and when the weather conditions allow, for any visible fugitive particulate emissions from the egress points (i.e., enclosed transfer points, building windows, doors, roof monitors, etc.). 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 minimize or eliminate the abnormal 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 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.

Authority for term OAC rule 3745-77-07(A)(3) and PTI 08-04737

- (2) The permittee shall perform daily checks, when these emissions units are in operation and when the weather conditions allow, for any visible particulate emissions from the fabric filters serving these emissions units. 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 abnormal 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 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.

Authority for term OAC rule 3745-77-07(A)(3) and PTI 08-04737

- (3) The CAM Plan for these emissions units is based on visible emissions observations and the operations and maintenance plan prepared in accordance with 40 CFR Part 63, Subpart LLL. For visible emissions, an excursion is defined as any occasion when visible emissions observed exiting the baghouse stacks are not deemed to be from normal operations.

The definition of excursion noted above is effective for the duration of this permit, unless revisions are requested by the permittee and approved by Ohio EPA. The permittee may request revisions to the excursion definition above based upon information obtained during future emission tests that demonstrate compliance with the emission limitations for this emissions unit. In addition, approved revisions to the ranges will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of a minor permit modification.

Authority for term: 40 CFR Part 63, Subpart LLL, 40 CFR Part 64, and OAC rule 3745-77-07(A)(3)

- (4) If a determination is made by the Administrator or Ohio EPA that the permittee has not used acceptable procedures in response to an excursion or exceedance based on the results of a determination made according to 40 CFR Part 64.7(d)(2), the permittee may be required to develop a Quality Improvement Plan (QIP) according to the specifications of 40 CFR 64.8.

Authority for term: 40 CFR Part 64 and OAC rule 3745-77-07(A)(3)

e) Reporting Requirements

- (1) The permittee shall submit semiannual written reports that:
 - a. all days during which any visible particulate emissions were observed from the stack serving this emissions unit;



- b. 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.
- c. 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.

Authority for term 40 CFR Part 64, OAC rule 3745-77-07(A)(3) and PTI 08-04737

- (2) The permittee shall submit semiannual written reports that:

- a. identify all days during which any abnormal visible particulate emissions were observed from the stacks serving these emissions units.
- 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.

Authority for term OAC rule 3745-77-07(A)(3), 40 CFR Part 64 and PTI 08-04737

f) Testing Requirements

- (1) Compliance with the Emissions Limitations specified in b) shall be determined in accordance with the following methods:

- a. Emissions Limitation –

The particulate emissions from the fabric filters serving these emissions units shall not exceed 0.010 grain per dry standard cubic foot of exhaust.

Applicable Compliance Method -

If requested, compliance shall be determined by emission measurements performed in accordance with the procedures specified in OAC rule 3745-17-03(B)(10) and U.S. EPA Reference Method 5 of 40 CFR Part 60, Appendix A.

- b. Emissions Limitation -

No visible particulate emissions from the outlet.



Applicable Compliance Method -

If requested, compliance shall be determined by visible emission evaluations performed in accordance with the procedures specified in OAC rule 3745-17-03(B)(3) and U.S. EPA Reference Method 22 of 40 CFR Part 60, Appendix A.

c. Emissions Limitation -

Emissions Unit P932: The particulate emissions from this emissions unit shall not exceed 1.76 pounds per hour and 7.51 tons per year.

Applicable Compliance Method -

This emissions limitation was developed by multiplying the grain loading of 0.01 grain/dscf by the maximum exhaust gas flow rate (20,500 dscf/minute) from the fabric filters and by 60 minutes per hour and then dividing by 7,000 grains/pound.

If requested, compliance shall be determined by visible emission evaluations performed in accordance with the procedures specified in OAC rule 3745-17-03(B)(10) and U.S. EPA Reference Method 5 of 40 CFR Part 60, Appendix A.

As long as compliance with the hourly particulate emissions limitation is maintained compliance with the annual limitation will be ensured (the annual limitation was determined by multiplying the hourly limitation by 8,760 hours/year, and then dividing by 2,000 lbs/ton).

d. Emissions Limitation -

Emissions Unit P933: The particulate emissions from this emissions unit shall not exceed 1.31 pounds per hour and 5.71 tons per year.

Applicable Compliance Method -

This emissions limitation was developed by multiplying the grain loading of 0.01 grain/dscf by the maximum exhaust gas flow rate (15,200 dscf/minute) from the fabric filters and by 60 minutes per hour and then dividing by 7,000 grains/pound.

If requested, compliance shall be determined by visible emission evaluations performed in accordance with the procedures specified in OAC rule 3745-17-03(B)(10) and U.S. EPA Reference Method 5 of 40 CFR Part 60, Appendix A.

As long as compliance with the hourly particulate emissions limitation is maintained compliance with the annual limitation will be ensured (the annual limitation was determined by multiplying the hourly limitation by 8,760 hours/year, and then dividing by 2,000 pounds/ton).

Authority for term OAC rule 3745-77-07(C)(1) and PTI 08-04737

g) Miscellaneous Requirements

- (1) None.



15. Emissions Unit Group -Crushing - limestone/clay: P901,P902,

EU ID	Operations, Property and/or Equipment Description
P901	Limestone Crusher with Baghouse B10; Screen with Baghouse B49; Handling and Storage with Baghouse B37
P902	Belt Conveyors and Clay Crusher, Area B100, equipped with Baghouse B116; Additive Bins in Area C equipped with Baghouses C5 and C38.

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.	OAC rule 3745-31-05(A)(3) PTI 08-834 issued December 4, 1985	<u>Emissions Unit P902:</u> The particulate emissions from the baghouses on this emissions unit shall not exceed 0.03 grain per dry standard cubic foot of exhaust or there shall be no visible emissions from the stack. <u>Emissions Unit P902:</u> The particulate emissions from this emissions unit shall not exceed 23.64 tons per year. See b)(2)a.
b.	OAC rule 3745-17-07(A)	Visible particulate emissions from the stacks serving these emissions units shall not exceed 20 percent opacity as a six-minute average.
c.	OAC rule 3745-17-07(B)	See b)(2)b.
d.	OAC rule 3745-17-08(B)	See b)(2)b.
e.	OAC rule 3745-17-11(B)	<u>Emissions Unit P901:</u> The particulate emissions from this emissions unit shall not exceed 79.3 pounds per hour. <u>Emissions Unit P902:</u> The particulate emissions limitation of this rule is less stringent than the particulate emissions



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		limitation established according to OAC rule 3745-31-05(A)(3).

(2) Additional Terms and Conditions

- a. 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 particulate emissions shall be vented to the baghouses identified above.
- 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).

c) Operational Restrictions

- (1) Emissions Unit P901: The permittee shall operate and maintain a water spray system in the dumping pit and plastic strip curtains at the tunnel entrance/exit when this emissions unit is in operation. The permittee shall employ best available control measures for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's application, the permittee has committed to use plastic curtains and spray water at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

Authority for term: PTI 08-834

d) Monitoring and/or Recordkeeping Requirements

- (1) Emissions Unit P902: The CAM Plan for this emissions unit is based on visible emissions observations. For visible emissions, an excursion is defined as any occasion when visible emissions observed exiting the baghouse stacks are not deemed to be from normal operations.

The definition of excursion noted above is effective for the duration of this permit, unless revisions are requested by the permittee and approved by Ohio EPA. The permittee may request revisions to the excursion definition above based upon information obtained during future emission tests that demonstrate compliance with the emission limitations for this emissions unit. In addition, approved revisions to the ranges will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of a minor permit modification.

Authority for term: 40 CFR Part 63, Subpart LLL, 40 CFR Part 64, and OAC rule 3745-77-07(A)(3)



- (2) Emissions Units P901 and P902: The permittee shall perform daily checks, when the emissions units are in operation and when the weather conditions allow, for any visible particulate emissions from the stacks serving these emissions units. 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 emissions incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emissions incident has occurred. The observer does not have to document the exact start and end times for the visible emissions incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emissions 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.

Authority for term: OAC rule 3745-17-07(A) and OAC rule 3745-77-07(A)(3)

- (3) Emissions Unit P902: If a determination is made by the Administrator or Ohio EPA that the permittee has not used acceptable procedures in response to an excursion or exceedance based on the results of a determination made according to 40 CFR Part 64.7(d)(2), the permittee may be required to develop a Quality Improvement Plan (QIP) according to the specifications of 40 CFR 64.8.

Authority for term: 40 CFR Part 64 and OAC rule 3745-77-07(A)(3)

- (4) Emissions Unit P902: 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.

If visible emissions are present, a visible emissions incident has occurred. The observer does not have to document the exact start and end times for the visible emissions incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emissions 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. Authority for term: PTI 08-834 and OAC rule 3745-77-07(A)(3)

e) Reporting Requirements

(1) Emissions Units P901 and P902: The permittee shall submit semiannual written reports that:

- a. identify all days during which any visible particulate emissions were observed from the baghouses serving these emissions units; 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.

Authority for term: 40 CFR Part 64, OAC rule 3745-17-07(A) and OAC rule 3745-77-07(A)(3)

(2) Emissions Unit P902: 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.

Authority for term: PTI 08-834 and OAC rule 3745-77-07(A)(3)



f) Testing Requirements

(1) Compliance with the emission limitations in b)(1) shall be determined in accordance with the following methods:

a. Emissions Limitation –

Emissions Unit P901: The particulate emissions from this emissions unit shall not exceed 79.3 pounds per hour.

Applicable Compliance Method -

If requested, compliance shall be determined by particulate emissions testing in accordance with U.S. EPA Reference Method 5 of 40 CFR Part 60, Appendix A and OAC rule 3745-17-03(B)(10).

Compliance with the hourly allowable particulate emissions limitation may also be determined by multiplying the maximum quantity of limestone processed, 750 tons per hour, by the emission factor of 0.001249 pound/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 pound/ton;
- ii. limestone screening with a fabric filter of 0.00022 pound/ton; and
- iii. limestone transfer with a fabric filter of 0.000029 pound/ton.

b. Emissions Limitation –

Emissions Unit P902: The particulate emissions from the fabric filters installed as part of this emissions unit shall not exceed 0.03 grain per dry standard cubic foot of exhaust.

Applicable Compliance Method -

If requested, compliance shall be determined by particulate emissions testing in accordance with U.S. EPA Reference Method 5 of 40 CFR Part 60, Appendix A and OAC rule 3745-17-03(B)(10).

c. Emissions Limitation –

Emissions Unit P902: The particulate emissions from this emissions unit shall not exceed 23.64 tons per year.



Applicable Compliance Method -

Compliance may be determined as follows:

- i. multiply the AP-42 emission factor of 0.0031 pound/ton for raw mill feed transfer, Table 11.6-4 (revised 1/95), by the maximum amount of material transferred (tons/year), and then divide by 2000 pounds per ton;
- ii. multiply the AP-42 emission factor of 0.012 pound/ton, for raw mills from Table 11.6-4 (revised 1/95), by the maximum amount of material processed in the clay crusher (tons/year), and then divide by 2000 pounds per ton;
- iii. multiply the RACM emission factor for raw material storage of 0.05 pound/ton, Table 2.13-2, by the annual weight clay processed, and then divide by 2000 pounds per ton; and
- iv. The sum i + ii + iii, multiplied by a control factor of (1 - 0.999). (The control efficiency for the fabric filter dust collection system is assumed to of 99.9%).

d. Emission Limitation -

Emissions Units P901 and P902: Visible particulate emissions from the stacks serving these emissions units shall not exceed 20 percent opacity as a six-minute average.

Applicable Compliance Method -

Compliance with the stack visible particulate emissions limitation shall be determined through visible emissions observations performed in accordance with OAC rule 3745-17-03(B)(1) and U.S. EPA Reference Method 9 of 40 CFR Part 60, Appendix A.

Authority for term OAC rule 3745-77-07(C)(1)

g) Miscellaneous Requirements

- (1) None.