



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

*Mitchell E. Daniels Jr.*  
Governor

*Thomas W. Easterly*  
Commissioner

100 North Senate Avenue  
Indianapolis, Indiana 46204  
(317) 232-8603  
Toll Free (800) 451-6027  
[www.idem.IN.gov](http://www.idem.IN.gov)

TO: Interested Parties / Applicant

DATE: August 9, 2012

RE: ESSROC Cement Corporation / 019-31269-00008

FROM: Matthew Stuckey, Branch Chief  
Permits Branch  
Office of Air Quality

## Notice of Decision: Approval – Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-17-3-4 and 326 IAC 2, this permit modification is effective immediately, unless a petition for stay of effectiveness is filed and granted, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3-7 and IC 13-15-7-3 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

- (1) the date the document is delivered to the Office of Environmental Adjudication (OEA);
- (2) the date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail; or
- (3) The date on which the document is deposited with a private carrier, as shown by receipt issued by the carrier, if the document is sent to the OEA by private carrier.

The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision or otherwise entitled to review by law. Please identify the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, date of this notice and all of the following:

- (1) the name and address of the person making the request;
- (2) the interest of the person making the request;
- (3) identification of any persons represented by the person making the request;
- (4) the reasons, with particularity, for the request;
- (5) the issues, with particularity, proposed for considerations at any hearing; and
- (6) identification of the terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

Pursuant to 326 IAC 2-7-18(d), any person may petition the U.S. EPA to object to the issuance of a Title V operating permit or modification within sixty (60) days of the end of the forty-five (45) day EPA review period. Such an objection must be based only on issues that were raised with reasonable specificity during the public comment period, unless the petitioner demonstrates that it was impracticable to raise such issues, or if the grounds for such objection arose after the comment period.

To petition the U.S. EPA to object to the issuance of a Title V operating permit, contact:

U.S. Environmental Protection Agency  
401 M Street  
Washington, D.C. 20406

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.



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August 9, 2012

Mr. David Hitt  
Essroc Cement Corporation  
301 Highway 31  
Speed, Indiana 47172

Re: 019-31269-00008  
Significant Permit Modification to:  
Part 70 Operating Permit (T019-26989-00008)

Dear Mr. Hitt:

Essroc Cement Corporation, located at 301 Highway 31, Speed, IN 47172 was issued Part 70 Operating Permit T019-26989-00008 on June 28, 2012 for a stationary portland cement manufacturing plant. Pursuant to the provisions of 326 IAC 2-7-12, a significant permit modification to this permit is hereby approved as described in the attached Technical Support Document relating to the construction of the following equipment:

One (1) Selective Non-Catalytic Reduction (SNCR) control system to control NOx emissions from the one (1) dry process rotary cement kiln #2 and associated preheater unit, equipped with an alkali bypass, identified as EU027.

EPA has initiated a global NSR-related settlement with all Essroc Cement plants to resolve alleged violations of the Clean Air Act (CAA). As part of this settlement agreement/Consent Decree No. 2:11-cv-01650-DSC and referenced in the Federal Register as No. 2:11-cv-0650-DSC, SNCR is being installed to control the NOx emissions from Kiln #2.

All the other conditions of the permit shall remain unchanged and in effect. Please find a copy of the revised Part 70 permit.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter call (800) 451-6027, and ask for Aida De Guzman or extension (3-4972), or dial (317) 233-4972.

Sincerely,



Chrystal Wagner, Section Chief  
Permits Branch  
Office of Air Quality

Attachments  
APD  
CC:  
Clark County  
Clark County Health Department  
Compliance and Enforcement Branch  
Permit Administration Support Section



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## PART 70 OPERATING PERMIT RENEWAL OFFICE OF AIR QUALITY

**ESSROC Cement Corporation  
301 Highway 31  
Speed, Indiana 47172**

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

**The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. Noncompliance with any provision of this permit, except any provision specifically designated as not federally enforceable, constitutes a violation of the Clean Air Act. 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 conditions of this permit. An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in Section B, Emergency Provisions.**

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: T019-26989-00008	
Issued by: Original Signed by  Chrystal A. Wagner, Section Chief Permits Branch Office of Air Quality	Issuance date: June 28, 2012  Expiration Date: June 28, 2017
First Significant Permit Modification No. 019-31269-00008	
Issued by:  Chrystal A. Wagner, Section Chief Permits Branch Office of Air Quality	Issuance Date: August 9, 2012  Expiration Date: June 28, 2017

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Attachment B 40 CFR Part 63, Subpart LLL - National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry as published at 64 FR 31925-31962 (June 14, 1999), as amended at 64 FR 53070 (Sept. 30 1999), 67 FR 16619-16624 (April 5, 2002), 67 FR 44769 (July 5, 2002), 67 FR 72584-72585 (Dec. 6, 2002), 68 FR 37358 (June 23, 2003), 71 FR 76549-76552 (Dec. 20, 2006), 75 FR 55051-55066 (Sept. 9, 2010), and 76 FR 2835-2837 (Jan. 18, 2011)	

Attachment C 40 CFR Part 63, Subpart LLL - National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry as published at 64 FR 31925-31962 (June 14, 1999), as amended at 64 FR 53070 (Sept. 30 1999), 67 FR 16619-16624 (April 5, 2002), 67 FR 44769 (July 5, 2002), 67 FR 72584-72585 (Dec. 6, 2002), 68 FR 37358 (June 23, 2003), 71 FR 76549-76552 (Dec. 20, 2006)

## SECTION A

## SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1, A.3 through A.4 and the description boxes in Sections D is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

### A.1 General Information [326 IAC 2-7-4(c)][326 IAC 2-7-5(14)][326 IAC 2-7-1(22)]

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The Permittee owns and operates a portland cement manufacturing plant.

Source Address:	301 Highway 31, Speed, Indiana 47172
General Source Phone Number:	(812) 246-5472
SIC Code:	3241
County Location:	Clark
Source Location Status:	Nonattainment for PM <sub>2.5</sub> Attainment for all other criteria pollutants
Source Status:	Part 70 Permit Program Major Source, under PSD Rules Major Source, Section 112 of the Clean Air Act 1 of 28 listed source categories

### A.2 Part 70 Source Definition [326 IAC 2-7-1(22)]

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This Portland cement manufacturing company consists of one (1) plant:

Essroc Cement Corporation, #00008, located at 301 Highway 31, Speed, IN 47172.

IDEM has determined that Hanson Aggregates Midwest Inc. - Aggrock Quarries, #05017, located at 5501 Highway 403, Sellersburg, IN 47172 is not under common control of Essroc Cement Corporation; therefore, they are considered separate sources for the purposes of Part 70 applicability.

### A.3 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(14)]

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This stationary source consists of the following emission units and pollution control devices:

#### Quarry Activities

- (1) Quarry drilling, identified as EU01, constructed in 1982, with particulate matter (PM) emissions controlled by one (1) baghouse, identified as the drilling rig baghouse 01 and exhausting to stack EP01. Note: The baghouse controlling the quarry drilling has no exhaust to the atmosphere. Dust is collected and then re-deposited into the ground.
- (2) Quarry blasting, identified as EU75, constructed prior to 1945, with associated fugitive particulate matter (PM) emissions.
- (3) Raw material (limestone) loading to trucks, identified as EU76, constructed in 1948, with particulate matter emissions uncontrolled.

#### Raw Material Stockpile Operations

- (4) Raw material (clay overburden) unloading to strippings stockpile, identified as EU78, constructed in 1948, with emissions uncontrolled.
- (5) Strippings stockpile, identified as EU145, created before 1945.

- (6) Truck unloading to additive hopper or additive storage piles (various sources of Silica/Alumina/Iron), identified as EU99, constructed in 1948, with emissions uncontrolled.
- (7) Various sources of Silica/Alumina/Iron additive storage piles, identified as EU100, created before 1945.
- (8) Additive clay blend pile, identified as EU101, created before 1945.
- (9) Truck unloading to clay storage piles, identified as EU102, constructed in 1948, with emissions uncontrolled.
- (10) Uncovered clay storage pile, identified as EU103, created before 1945.
- (11) Covered clay and ash storage piles, identified as EU104, created before 1945.

### **Raw Material Sizing Operations**

- (12) Raw material unloading to stone surge pile or primary crusher, identified as EU80, with emissions uncontrolled, commenced before 1956.
- (13) Stone surge pile, identified as EU81, created before 1956.
- (14) One (1) primary crusher, identified as EU82, constructed in 1956, with a nominal throughput of 700 tons per hour, with PM emissions uncontrolled.
- (15) One (1) covered conveyor belt for transferring stone from primary crusher to screens, identified as EU83, constructed in 1956, with a nominal throughput of 700 tons per hour, with emissions uncontrolled.
- (16) Screens, identified as EU84, with a nominal throughput of 700 tons per hour, constructed in 1956, with emissions uncontrolled.
- (17) One (1) secondary crusher, identified as EU02, constructed in 1956, with a nominal throughput of 1050 tons per hour, with PM emissions controlled by one (1) baghouse, identified as baghouse 200, and exhausting to one (1) stack, identified as EP02.
- (18) Covered conveyor for transferring stone from screens and secondary crusher to tertiary crusher or stone ladder bypass, identified as EU03, constructed in 1956, with a nominal throughput of 1050 tons per hour, with PM emissions controlled by one (1) baghouse, identified as baghouse 201, and exhausting to one (1) stack, identified as EP03.
- (19) One (1) tertiary crusher, identified as EU04, constructed in 1956, with a nominal throughput of 350 tons per hour, with PM emissions controlled by one (1) baghouse, identified as baghouse 201, and exhausting to one (1) stack, identified as EP03.
- (20) One (1) conveyor used to bypass tertiary crusher, referred to as the stone ladder (bypass), identified as EU05, constructed in 1956, with emissions controlled by a baghouse, identified as baghouse 201, and exhausting to one (1) stack, identified as EP03.
- (21) One (1) covered conveyor for transferring material from stone ladder and tertiary crusher to traveling belt, identified as EU85, constructed in 1956, with a nominal throughput of 700 tons per hour, with emissions uncontrolled.
- (22) One (1) traveling belt for transferring material from covered conveyor to North and South stone bins, identified as EU86, constructed in 1956, with a nominal throughput of 700 tons per hour, with emissions uncontrolled.

- (23) North stone bin, identified as EU06, constructed in 1956, with emissions controlled by a baghouse, identified as baghouse 101, and exhausting to one (1) stack, identified as EP04.
- (24) South stone bin, identified as EU07, constructed in 1956, with emissions controlled by one (1) baghouse, identified as baghouse 102, and exhausting to one (1) stack, identified as EP05.
- (25) Stone conveyor transfer to truck, identified as EU87, constructed in 1956, with a nominal throughput of 700 tons per hour, with emissions uncontrolled.
- (26) One (1) truck unloading station to crushed limestone storage pile, identified as EU89, constructed in 1956, with emissions uncontrolled.
- (27) One (1) truck loading station from crushed limestone storage pile, identified as EU91, constructed in 1956, with emissions uncontrolled.
- (28) One (1) truck unloading station to truck dump hopper, identified as EU93, constructed in 1956, with emissions uncontrolled.
- (29) One (1) truck unloading station to emergency limestone storage pile or truck dump hopper, identified as EU94, constructed in 1956, with emissions uncontrolled.
- (30) Crushed limestone storage piles, identified as EU90, created before 1957.
- (31) Emergency limestone storage pile, identified as EU95, created during 1957.
- (32) One (1) truck dump hopper, identified as EU96, constructed in 1977, with emission uncontrolled.
- (33) One (1) limestone conveyor for transferring limestone from the truck dump hopper to the main limestone storage pile, identified as EU97, constructed in 1977, with a nominal throughput of 700 tons per hour, with emissions uncontrolled.
- (34) Main limestone storage pile, identified as EU98, created during 1957.

#### **Kiln #1 Cement Kiln Dust (CKD) Operations**

- (35) One (1) dust tank system, identified as EU21, constructed in 1971 with a nominal throughput of 100 tons per hour, with emissions controlled by a baghouse, identified as baghouse 210, and exhausting to stack EP17.
- (36) Truck loading from baghouse 221, identified as EU113, with emissions uncontrolled, commenced during July 1971.
- (37) CKD storage pile, identified as EU118, created before 1945.
- (38) CKD sales loadout spout (kiln #1 dust tank), identified as EU155, constructed in 1996, with emissions controlled by a baghouse, with a nominal air flow rate of 2400 actual cubic feet per minute, identified as baghouse 266 (CE98) and exhausting to stack EP98.

#### **Kiln #2 Cement Kiln Dust (CKD) Operations**

- (39) Truck loading from the elevator dust tank, identified as EU115, with emissions uncontrolled, commenced during 1977.
- (40) Truck loading from baghouse 16 (alkali bypass system), identified as EU117, with emissions uncontrolled, commenced during 1977.

- (41) One (1) elevator/dust tank (associated with the alkali bypass) for kiln #2, identified as EU28, constructed in 1977, with emissions controlled by baghouse 232 and exhausting to stack EP23.

#### **Miscellaneous Facilities**

- (42) Plant Roads, identified as EU152.
- (43) One (1) warehouse conveyor system for conveying bagged cement, identified as EU74, constructed in 1985, with emissions controlled by a baghouse with a nominal air flow rate of 1650 actual cubic feet per minute, identified as baghouse 249, and exhausting to stack EP76.

#### **Clay Processing Operations**

- (44) Clay hopper, identified as EU105, constructed prior to 1945.
- (45) One (1) covered conveyor system for transferring material from the clay hopper to the clay crusher, identified as EU106, constructed before 1954, with a nominal throughput of 75 tons per hour, with emissions uncontrolled.
- (46) One (1) clay crusher, identified as EU08, constructed in 1977, with a nominal throughput of 75 tons per hour, with emissions controlled by a baghouse, identified as baghouse 227, and exhausting to stack EP07.

#### **Finish Operations Crane Storage Facilities**

- (47) Emergency BP stone storage pile, identified as EU128, created before 1945.
- (48) One (1) truck unloading station to Emergency BP stone storage pile or Crane storage pile, identified as EU127, with emissions uncontrolled, commenced before 1945.
- (49) One (1) truck unloading station to gypsum storage piles, identified as EU129, with emissions uncontrolled, commenced before 1945.
- (50) Crane storage building, including gypsum storage bin, stone storage bin, two (2) clinker storage bins, and stone, clinker, and gypsum storage piles, identified as EU131, constructed in 1935.
- (51) Gypsum storage piles, identified as EU130 and EU134, created before 1945.

#### **Fossil Fuel Storage and Handling Facilities**

- (52) Coal trucks unloading to the coal storage piles and reserve coal storage piles, identified as EU136, constructed in June 1971, with emissions uncontrolled.
- (53) Reserve coal storage piles, identified as EU137, created in May 1971.
- (54) Coal storage piles, identified as EU142, constructed prior to 1945.
- (55) One (1) coal draw-up covered conveying system for transferring material from the coal/alternate energy storage pile to the coal transfer tower, identified as EU63, constructed in June 1972, with a nominal throughput of 200 tons per hour, with emissions controlled by one (1) baghouse, identified as baghouse 206, and exhausting to stack EP77.

- (56) Coal transfer tower, identified as EU64, constructed in June 1972, with a nominal throughput of 200 tons per hour, with emissions controlled by one (1) baghouse, identified as baghouse 207, and exhausting to stack EP78.
- (57) One (1) coal bin, identified as EU65, constructed in June 1972, with emissions controlled by one (1) baghouse, identified as baghouse 208, and exhausting to stack EP79.

#### **Kiln #1 Clinker Handling Facilities**

- (58) One (1) #1 clinker drag conveyor for transferring clinker from clinker cooler #1 to the apron conveyor, identified as EU23, constructed in May 1971, with a nominal throughput of 100 tons per hour, with emissions controlled by a baghouse, identified as baghouse 217, and exhausting to one (1) stack identified as EP19.
- (59) Apron conveyor for transferring clinker from the #1 clinker drag conveyor to either the clinker can #1 or the long belt, identified as EU24, constructed in May 1971, with a nominal throughput of 100 tons per hour, with emissions controlled by one (1) baghouse, identified as baghouse 218, exhausting to one (1) stack identified as EP21.
- (60) Clinker can #1, which is a vertical bin with a lid used for storing off-spec clinker, identified as EU114, constructed in May 1971, with emissions controlled by one (1) baghouse, identified as baghouse 31382, exhausting to one (1) stack identified as EPN1.

#### **Kiln #2 Clinker Handling Facilities**

- (61) One (1) Kreyling hopper to feed weathered clinker to the clinker cooler #2, identified as EU157, constructed in 2009, with emissions uncontrolled.
- (62) One (1) #2 clinker drag conveyor for transferring clinker from clinker cooler #2 to the aumond conveyor, identified as EU30, constructed in 1977, with a nominal throughput of 150 tons per hour, with emissions controlled by a baghouse, identified as baghouse 233, and exhausting to one (1) stack identified as EP25.
- (63) One (1) aumond conveyor used for transferring clinker and clinker dust from the #2 clinker drag conveyor, #2 cooler, and baghouse 17 to the clinker can #2 or the cross belt, identified as EU31, constructed in 1977, with a nominal throughput of 150 tons per hour, with emissions controlled by one (1) baghouse, identified as baghouse 234, exhausting to one (1) stack identified as EP26.
- (64) One (1) cross belt for transferring clinker to the long belt, identified as EU119, constructed in May 1971, with a nominal throughput of 150 tons per hour, with emissions controlled by a baghouse, identified as baghouse 218, and exhausting to one (1) stack identified as EP21.
- (65) Clinker can #2, which is a vertical bin with a lid used for storing off-spec clinker, identified as EU120, constructed in 1977, with emissions controlled by one (1) baghouse, identified as baghouse 31382, exhausting to one (1) stack identified as EPN1.

#### **Clinker Handling to Crane Storage Facilities**

- (66) One (1) long belt for transferring clinker from the apron conveyor and the cross belt to the North clinker transfer tower, identified as EU25, constructed in May 1971, with a nominal throughput of 200 tons per hour, with emissions controlled by two (2) baghouses, identified as baghouse 35925, exhausting to one (1) stack identified as EP27, and baghouse 218, exhausting to one (1) stack identified as EP21.
- (67) One (1) North clinker transfer tower for transferring clinker from the long belt to the covered incline belt, identified as EU32, constructed in 1972, with a nominal throughput

- of 200 tons per hour, with emissions controlled by a baghouse, identified as baghouse 35925, and exhausting to one (1) stack identified as EP27.
- (68) One (1) covered incline belt used for transferring clinker from the North clinker transfer tower to the Shuttle Belt then to the North clinker storage building, identified as EU33, constructed in 1972, with a nominal throughput of 200 tons per hour, with emissions controlled by a baghouse, identified as baghouse 35931, and exhausting to one (1) stack identified as EPN7.
- (69) One (1) clinker storage pile, identified as EU121, created before 1960.
- (70) North clinker storage pile, identified as EU122, created in May 1971.
- (71) North clinker storage building, identified as EU123, constructed in 1960, with emissions controlled by baghouse 35931 and exhausting to stack EPN7.
- (72) One (1) North reclaim clinker covered conveyor system used to transfer clinker from the North clinker storage building and baghouse dust from baghouse 35391 to either, 1) the South reclaim clinker covered conveyor system (EU124) or, 2) the 2D finish mill clinker bin transfer (EU44), identified as EU34, constructed in 1962, with a nominal throughput of 200 tons per hour, with emissions controlled by a baghouse, identified as baghouse 35927, and exhausting to one (1) stack identified as EP29.
- (73) One (1) South reclaim clinker covered conveyor used to transfer clinker from the North reclaim clinker covered conveyor system to the crane storage building, identified as EU124, constructed in May 1971, with a nominal throughput of 200 tons per hour, with emissions controlled by two (2) baghouses, identified as baghouse 202, exhausting to one (1) stack identified as EP39 and baghouse 31499, exhausting to one (1) stack identified as EPN2.
- (74) Truck loading station, used for loading material from the North clinker storage pile and clinker storage pile, identified as EU125, constructed in May 1971, with emissions uncontrolled.
- (75) Truck unloading station, used for loading material to the crane storage building, identified as EU126, constructed in May 1971, with emissions uncontrolled.

### **2ABC Finish Mill Facilities**

- (76) One (1) Base tank (CKD), identified as EU146, constructed in 1964, with emissions controlled by a baghouse, identified as baghouse 143, and exhausting to one (1) stack identified as EP84.
- (77) One (1) gypsum/stone/clinker transfer circuit ABC mills, including material transfers and scales, identified as EU35, constructed in 1964, with a nominal throughput of 200 tons per hour, with emissions controlled by three (3) baghouses, identified as baghouses 131, 31495, and 31496, and exhausting to three (3) stacks identified as EP30, EPN3, and EPN4, respectively.
- (78) Two (2) clinker elevators, identified as EU37, constructed in 1969, with a nominal throughput of 200 tons per hour, with emissions controlled by a baghouse, identified as baghouse 133, and exhausting to one (1) stack identified as EP33.
- (79) One (1) 2BC finish mill feed belt, identified as EU132, constructed in 1977, with a nominal throughput of 200 tons per hour, with emissions controlled by two (2) baghouses, identified as baghouses 135 and 137, exhausting to two (2) stacks identified as EP35 and EP37, respectively.

- (80) 2A hopper / preliminary ball mill used to grind clinker and gypsum, identified as EU38, constructed in 1948, with a nominal throughput of 24 tons per hour, with emissions controlled by a baghouse, identified as baghouse 133, and exhausting to one (1) stack identified as EP33.
- (81) One (1) finish mill circuit 2A, which includes three (3) elevators, finish mill, separator, and air transport system, collectively identified as EU39, constructed in 1948, with a nominal throughput of 24 tons per hour, with emissions controlled by a baghouse, identified as baghouse 134, and exhausting to one (1) stack identified as EP34.
- (82) One (1) finish mill circuit 2B, which includes the feed hopper, feed belt, finish mill, and elevator, collectively identified as EU40, constructed in 1953, with a nominal throughput of 25 tons per hour, with emissions controlled by a baghouse, identified as baghouse 135, and exhausting to one (1) stack identified as EP35.
- (83) One (1) finish mill circuit 2C, which includes the feed hopper, feed belt, finish mill, and elevator, collectively identified as EU42, constructed in 1960, with a nominal throughput of 36 tons per hour, with emissions controlled by a baghouse, identified as baghouse 137, and exhausting to one (1) stack identified as EP37.
- (84) One (1) separator circuit, which includes an air transport system and pump, used in conjunction with the finish mill circuit 2C, identified as EU43, constructed in 1960 and 1964, respectively, with a nominal throughput of 36 tons per hour, with emissions controlled by a baghouse, identified as baghouse 138, and exhausting to one (1) stack identified as EP37.
- (85) One (1) separator, which includes an air transport system and pump, used in conjunction with the finish mill circuit 2B, identified as EU41, constructed in 1953 and 1955, respectively, with a nominal throughput of 25 tons per hour, with emissions controlled by a baghouse, identified as baghouse 136, and exhausting to one (1) stack identified as EP35.
- (86) One (1) BP tank for storing finished product (cement), identified as EU48, constructed in 1965, with a nominal throughput of 700 tons per hour, with emissions controlled by a baghouse, identified as baghouse 144, and exhausting to one (1) stack identified as EP81.
- (87) One (1) pump used to transfer finished product (cement) from the BP tank to silos, identified as EU49, constructed in 1966, with a nominal throughput of 50 tons per hour, with emissions controlled by a baghouse, identified as baghouse 146, and exhausting to one (1) stack identified as EP82.

## **2D Finish Mill Facilities**

- (88) One (1) gypsum elevator used to transfer material from the gypsum storage piles to the 2D finish mill circuit, identified as EU135, constructed in 1964, with a nominal throughput of 45 tons per hour, with emissions controlled by a baghouse, identified as baghouse 120, and exhausting to one (1) stack identified as EP40.
- (89) One (1) 2D finish mill clinker bin transfer, which includes the elevator, conveyor belts, and air transport system, identified as EU44, constructed in 1964, with a nominal throughput of 300 tons per hour, with emissions controlled by one (1) baghouse, identified as baghouse 120, and exhausting to stack identified as EP40.
- (90) One (1) 2D finish mill clinker / gypsum feed circuit which includes scales and feed belts, identified as EU45, constructed in 1964, with a nominal throughput of 140 tons per hour, with emissions controlled by three (3) baghouses, identified as baghouse 36643, exhausting to one (1) stack identified as EPN11, baghouse 31497 exhausting to one (1)

stack identified as EPN5, and baghouse 31498 exhausting to one (1) stack identified as EPN6.

- (91) One (1) 2D finish mill roll press circuit, which includes a roller press (crusher) with surge bin, identified as EU46, constructed in 1999, with a nominal throughput of 140 tons per hour, with emissions controlled by three (3) baghouses, identified as baghouses 261, DC35990, and DC35997, and exhausting to three (3) stacks identified as EP93, EPN8, and EPN9, respectively.
- (92) One (1) 2D finish mill circuit, which includes conveyor transfer, elevator, finish mill, elevator, classifier, and a cement cooler, identified as EU47, constructed in 1964, with a nominal throughput of 140 tons per hour, with emissions controlled by two (2) baghouses, identified as baghouses 139 and 36643, exhausting to two (2) stacks identified as EP41 and EPN11, respectively.

#### **Finish Product 501-Silos Storage and Packing Facilities**

- (93) 501-Silos 25-44, identified as EU54, constructed in 1965, with emissions controlled by five (5) baghouses, identified as baghouses 224, 225, 246, 150, and 151, and exhausting to five (5) stacks identified as EP63 through EP67, respectively.
- (94) One (1) BIC mixer for mixing lime and pigment with the cement, identified as EU55, constructed in 1973, with a nominal throughput of 45 tons per hour, with emissions controlled by two (2) baghouses, identified as baghouses 224 and 225, and exhausting to two (2) stacks identified as EP102 and EP68.
- (95) One (1) BIC packer for loading cement into bags, identified as EU56, constructed in 1973, with a nominal throughput of 45 tons per hour, with emissions controlled by two (2) baghouses, identified as baghouses 224 and 225, and exhausting to two (2) stacks identified as EP102 and EP68.

#### **Finish Product 506-Silos Storage, Packing, and Bulk Loading Facilities**

- (96) 506-Silos 56-73, identified as EU53, constructed in 1958, with emissions controlled by fourteen (14) baghouses, identified as baghouses 159 through 172, and exhausting to fourteen (14) stacks identified as EP49 through EP62, respectively.
- (97) Two (2) bulk loading stations for railroad cars and trucks, identified as EU57 and EU58, constructed in 1954, each with a nominal throughput of 200 tons per hour, with emissions controlled by baghouses 176 and 177, respectively, and exhausting to stacks EP69 and EP70 respectively.
- (98) One (1) north packer #1 for loading cement into bags, identified as EU59, constructed in 1960, with a nominal throughput of 45 tons per hour, with emissions controlled by a baghouse, identified as baghouse 173, and exhausting to one (1) stack identified as EP71.
- (99) One (1) center packer #2 for loading cement into bags, identified as EU60, constructed in 1960, with a nominal throughput of 45 tons per hour, with emissions controlled by a baghouse, identified as baghouse 174, and exhausting to one (1) stack identified as EP72.
- (100) One (1) south packer #3 for loading cement into bags, identified as EU61, constructed in 1960, with a nominal throughput of 45 tons per hour, with emissions controlled by a baghouse, identified as baghouse 175, and exhausting to one (1) stack identified as EP73.

- (101) One (1) bag compression station, identified as EU62, constructed in 1960, with a nominal throughput of 45 tons per hour, with emissions controlled by a baghouse, identified as baghouse 242, and exhausting to one (1) stack identified as EP74.

#### **Finish Product 504-Silos Storage and Bulk Loading Facilities**

- (102) 504-Silos 45-48, and 50-55, identified as EU51, constructed in 1959, with emissions controlled by four (4) baghouses, identified as baghouses 153 through 156, and exhausting to four (4) stacks identified as EP44 through EP47, respectively.
- (103) One (1) bulk loading station for trucks and railroad cars, identified as EU52, constructed in 1959, with a nominal throughput of 200 tons per hour, with emissions controlled by baghouse 152, and exhausting to stack EP48.
- (104) 504 Silos Bank/Silo 49 (CKD sales), identified as EU153, constructed in 1959, with emissions controlled by a baghouse, identified as baghouse 264 and exhausting to stack EP96.
- (105) CKD sales loadout spout for CKD destined for sale and/or reuse into process, identified as EU154, constructed in 1999, with emissions controlled by a baghouse, identified as baghouse 265 and exhausting to stack EP97.

#### **Finish Product 502-Silos Storage and Bulk Loading Facilities**

- (106) 502-Silos 1, 2, and 7-11, identified as EU50, constructed in 1966, with emissions controlled by two (2) baghouses, identified as baghouses 148 and 149, and exhausting to two (2) stacks, identified as EP42 and EP43, respectively.

#### **Raw Mill Facilities**

- (107) Two (2) pneumatic truck unloading stations, identified as EU107 and EU108, constructed in July 1976, to fly ash tanks (EU10 and EU11), with emissions controlled by two (2) baghouses, identified as baghouse 228 and baghouse 35363, and exhausting to stacks EP09 and EPN12, respectively.
- (108) One (1) iron ore hopper, identified as EU109, constructed in July 1976, with emissions uncontrolled.
- (109) One (1) bottom ash hopper, identified as EU158, constructed in 2009, with emissions uncontrolled.
- (110) Two (2) silos for flyash, identified as EU10 and EU11, with emissions controlled by two (2) baghouses, identified as baghouse 228 exhausting to stack EP09, and baghouse 35363 exhausting to stack EPN12.
- (111) One (1) silo for iron ore, identified as EU12, equipped with one (1) elevator, constructed in 1977, with emissions controlled by one (1) baghouse, baghouse 35363 (west flyash tank baghouse) and exhausting to stack EPN12.
- (112) One (1) C-15 covered conveyor system for transferring material from the clay breaker, bottom ash hopper, iron ore tank, fly ash tanks, raw material pile, and the main limestone storage pile to the Loesche raw mill, identified as EU09, constructed in 1977, with a nominal throughput of 300 tons per hour, with emissions controlled by three (3) baghouses, identified as baghouses 227 (clay crusher), 35134 (C-15 east flyash feeder), and 35137 (C-15 west), and exhausting to stacks EP07, EPN13, and EPN10, respectively.

- (113) One (1) Loesche raw mill, identified as EU14, constructed in 1977, with a nominal throughput of 300 tons per hour, with emissions controlled by one (1) baghouse, identified as baghouse 15, and exhausting to stack S-15.
- (114) One (1) sidewinder (pneumatic transfer pump) used for pumping the kiln feed to the feed and blend silos, identified as EU15, constructed in 1977, with a nominal throughput of 300 tons per hour, with emissions controlled by one (1) baghouse, identified as baghouse 247 and exhausting to stack EP-11.
- (115) One (1) raw material pile, identified as EU112.
- (116) One (1) oil-fired furnace, referred to as the Todd Furnace, used for Loesche mill heating, identified as EU13, constructed in 1977, with a nominal heat input capacity of 55 million British thermal units per hour, with emissions controlled by one (1) baghouse, identified as baghouse 15, and exhausting to stack S-15.
- (117) Feed silo #1 for kiln feed, identified as EU16, constructed in May 1971, with emissions controlled by one (1) baghouse, identified as baghouse 211, and exhausting to stack EP12.
- (118) Blend silo #2 for blending kiln feed, identified as EU17, constructed in 1977, with emissions controlled by one (1) baghouse, identified as baghouse 230, and exhausting to stack EP13.
- (119) One (1) calibration system, identified as EU18, constructed in May 1971, with emissions controlled by one (1) baghouse, identified as baghouse 212, and exhausting to stack EP14.

#### **Coal Handling, Milling and Storage Facilities**

- (120) Coal (crusher) mill #1, identified as EU66 servicing kiln #1, constructed in May 1971, with a nominal throughput of 12.5 tons per hour, with emissions routed to kiln #1 and controlled by baghouse 221 and exhausting to one (1) stack, identified as S-14.
- (121) Coal (crusher) mill #2, identified as EU67 servicing kiln #2, constructed in 1977, with a nominal throughput of 14 tons per hour, with emissions controlled by one (1) baghouse, identified as baghouse 252, and exhausting to stack EP88. Note: For the purposes of NSPS Subpart Y applicability, this is also a thermal dryer.
- (122) One (1) fuel oil-fired air preheater for kiln #1 coal mill, identified as EU68, constructed in May 1971, with a nominal heat input capacity of 5.3 million British thermal units per hour, with emissions exhausting directly to the kiln #1 coal mill then routed to kiln #1 and controlled by one (1) baghouse, identified as baghouse 221 and exhausting to stack S-14.
- (123) One (1) fuel oil-fired air preheater for kiln #2 coal mill, identified as EU69, constructed in 1977, with a nominal heat input capacity of 5.3 million British thermal units per hour, with emissions exhausting directly to the kiln #2 coal mill controlled by one (1) baghouse identified as baghouse 252, exhausting to stack EP88. Note: For the purposes of NSPS Subpart Y applicability, this is also a thermal dryer.
- (124) Kiln #2 pulverized coal silo, identified as EU149, constructed in 1996, with emissions controlled by one (1) baghouse with a nominal air flow rate of 200 actual cubic feet per minute, identified as baghouse 253 and exhausting to one (1) stack identified as EP101.
- (125) Kiln #2 coal weigh system, identified as EU150, constructed in 1996, with a nominal throughput of 20 tons per hour, with emissions controlled by one filter, identified as filter 254 and exhausting to a vent.

- (126) Kiln #2 burner pump system, identified as EU151, constructed in 1996, with a nominal throughput of 20 tons per hour, with emissions controlled by one filter, identified as filter 255 and exhausting to a vent.

#### **The Kiln #1 and Kiln #2 Facilities**

- (127) One (1) feed system for kiln #1, identified as EU19, constructed in May 1971, with a nominal throughput of 105 tons per hour, with PM emissions from the alleviator controlled by one (1) baghouse, identified as baghouse 209 and exhausting to stack EP15 and with PM emissions from the scales and pump controlled by one (1) baghouse, identified as baghouse 212 and exhausting to stack EP14.
- (128) One (1) long dry process rotary cement kiln #1, identified as EU20, constructed in May 1971, with a nominal heat input capacity of 184 million Btu per hour, with a nominal production rate of 60 tons per hour (as clinker), with PM emissions controlled by one (1) baghouse, identified as baghouse 221, and exhausting to one (1) stack, identified as S-14.
- (129) One (1) feed system for kiln #2, identified as EU26, constructed in 1977, with a nominal throughput of 175 tons per hour, with PM emissions controlled by one (1) baghouse, identified as baghouse 231, and exhausting to stack EP80.
- (130) One (1) dry process rotary cement kiln #2 and associated preheater unit, equipped with an alkali bypass, identified as EU27, constructed in 1977, and approved in 2012 to install a Selective Non-Catalytic Reduction (SNCR) to control its NOx emissions, with a nominal heat input capacity of 302 million Btu per hour, with a nominal production rate of 105 tons per hour (as clinker), with PM emissions controlled by two (2) baghouses, identified as baghouse 15 and baghouse 16 (alkali bypass system), and exhausting to stacks S-15 and S-16, respectively.

#### **The Clinker Cooler #1 Facilities**

- (131) One (1) grate clinker cooler #1, identified as EU22, constructed in May 1971, with a nominal throughput rate of 60 tons per hour, with PM emissions controlled by one (1) baghouse, identified as baghouse 222, and exhausting to one (1) stack, identified as S-13.

#### **The Clinker Cooler #2 Facilities**

- (132) One (1) grate clinker cooler #2, identified as EU29, constructed in 1977, with a nominal throughput of 105 tons per hour, with PM emissions controlled by one (1) baghouse, identified as baghouse 17, and exhausting to one (1) stack, identified as S-17.

#### **A.4 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)] [326 IAC 2-7-5(14)]**

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This stationary source also includes the following insignificant activities which are specifically regulated, as defined in 326 IAC 2-7-1(21):

- (1) Degreasing operations. [326 IAC 8-3-2] [326 IAC 8-3-5] [326 IAC 8-3-8]
- (2) Underground conveyors. [326 IAC 6.5-1-2]
- (3) Coal bunker and coal scale exhausts and associated dust collector vents. [326 IAC 6.5-1-2]

#### Finish Product 501-Silos Storage and Packing Facilities

- (4) One (1) bag flattener for eliminating void space in cement bags at the BIC packer, identified as EU156, installed in 2012, with emissions controlled by one (1) baghouse, identified as baghouse 225, and exhausting to one (1) stack, identified as EP64. [326 IAC 6.5-1-2] [40 CFR 63, Subpart LLL]

#### A.5 Part 70 Permit Applicability [326 IAC 2-7-2]

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This stationary source is required to have a Part 70 permit by 326 IAC 2-7-2 (Applicability) because:

- (1) It is a major source, as defined in 326 IAC 2-7-1(22); and
- (2) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 - Applicability).

## SECTION B GENERAL CONDITIONS

### B.1 Definitions [326 IAC 2-7-1]

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Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2 and 326 IAC 2-7) shall prevail.

### B.2 Permit Term [326 IAC 2-7-5(2)][326 IAC 2-1.1-9.5][326 IAC 2-7-4(a)(1)(D)][IC 13-15-3-6(a)]

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- (a) This permit, T019-26989-00008, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.

### B.3 Term of Conditions [326 IAC 2-1.1-9.5]

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Notwithstanding the permit term of a permit to construct, a permit to operate, or a permit modification, any condition established in a permit issued pursuant to a permitting program approved in the state implementation plan shall remain in effect until:

- (a) the condition is modified in a subsequent permit action pursuant to Title I of the Clean Air Act; or
- (b) the emission unit to which the condition pertains permanently ceases operation.

### B.4 Enforceability [326 IAC 2-7-7] [IC 13-17-12]

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Unless otherwise stated, all terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.

### B.5 Severability [326 IAC 2-7-5(5)]

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The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

### B.6 Property Rights or Exclusive Privilege [326 IAC 2-7-5(6)(D)]

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This permit does not convey any property rights of any sort or any exclusive privilege.

### B.7 Duty to Provide Information [326 IAC 2-7-5(6)(E)]

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- (a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.
- (b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

### B.8 Certification [326 IAC 2-7-4(f)][326 IAC 2-7-6(1)][326 IAC 2-7-5(3)(C)]

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- (a) A certification required by this permit meets the requirements of 326 IAC 2-7-6(1) if:

- (1) it contains a certification by a "responsible official" as defined by 326 IAC 2-7-1(34), and
  - (2) the certification states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) The Permittee may use the attached Certification Form, or its equivalent, with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
  - (c) A "responsible official" is defined at 326 IAC 2-7-1(34).

B.9 Annual Compliance Certification [326 IAC 2-7-6(5)]

- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. All certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted no later than July 1 of each year to:

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

and

United States Environmental Protection Agency, Region V  
Air and Radiation Division, Air Enforcement Branch - Indiana (AE-17J)  
77 West Jackson Boulevard  
Chicago, Illinois 60604-3590

- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
  - (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
  - (2) The compliance status;
  - (3) Whether compliance was continuous or intermittent;
  - (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-7-5(3); and
  - (5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ may require to determine the compliance status of the source.

The submittal by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

B.10 Preventive Maintenance Plan [326 IAC 2-7-5(12)][326 IAC 1-6-3]

- (a) A Preventive Maintenance Plan meets the requirements of 326 IAC 1-6-3 if it includes, at a minimum:
- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
  - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
  - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

The Permittee shall implement the PMPs.

- (b) If required by specific condition(s) in Section D of this permit where no PMP was previously required, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, including the following information on each facility:
- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
  - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
  - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If, due to circumstances beyond the Permittee's control, the PMPs cannot be prepared and maintained no later than the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

The PMP extension notification does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

The Permittee shall implement the PMPs.

- (c) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions. The PMPs and their submittal do not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).
- (d) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.11 Emergency Provisions [326 IAC 2-7-16]

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- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation.
  
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:
  - (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
  - (2) The permitted facility was at the time being properly operated;
  - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
  - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, or Southeast Regional Office within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance and Enforcement Branch), or  
Telephone Number: (317) 233-0178 (ask for Office of Air Quality, Compliance and Enforcement Branch);  
Facsimile Number: (317) 233-6865  
Southeast Regional Office phone: (812) 358-2027; fax: (812) 358-2058

- (5) For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent, either by mail or facsimile to:

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-7-5(3)(C)(ii) and must contain the following:

- (A) A description of the emergency;
- (B) Any steps taken to mitigate the emissions; and
- (C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.

- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4(c)(8) be revised in response to an emergency.
- (f) Failure to notify IDEM, OAQ by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.
- (g) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.

B.12 Permit Shield [326 IAC 2-7-15][326 IAC 2-7-20][326 IAC 2-7-12]

- (a) Pursuant to 326 IAC 2-7-15, the Permittee has been granted a permit shield. The permit shield provides that compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that either the applicable requirements are included and specifically identified in this permit or the permit contains an explicit determination or concise summary of a determination that other specifically identified requirements are not applicable. The Indiana statutes from IC 13 and rules from 326 IAC, referenced in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a Part 70 permit under 326 IAC 2-7 or for applicable requirements for which a permit shield has been granted.

This permit shield does not extend to applicable requirements which are promulgated after the date of issuance of this permit unless this permit has been modified to reflect such new requirements.

- (b) The IDEM, OAQ has made the following determinations regarding this source:
  - (1) None of the quarry activities, raw material stockpile operations, or raw material sizing operations listed in Section D.1 are subject to the requirements of the New Source Performance Standards (NSPS), 40 CFR 60, Subparts A and F (Standards of Performance for Portland Cement Plants) because they are not affected facilities under this rule.
  - (2) None of the cement kiln dust operations listed in Section D.1 are subject to the requirements of the New Source Performance Standards (NSPS), 40 CFR 60, Subparts A and F (Standards of Performance for Portland Cement Plants), because they are not considered affected facilities under this rule.
  - (3) None of the quarry activities, raw material stockpile operations, or raw material sizing facilities/emission units listed in Section D.1 are subject to the requirements of the National Emissions Standards for Hazardous Air Pollutants (NESHAP) 40 CFR 63 Subparts A and LLL, because they are not affected facilities under this rule.

- (4) None of the cement kiln dust operations listed in Section D.1 are subject to the requirements of the National Emissions Standards for Hazardous Air Pollutants (NESHAP) 40 CFR 63 Subparts A and LLL, because they are not considered affected facilities under this rule.
  - (5) None of the facilities/emission units listed in Section D.1 are subject to the requirements of the NSPS, 40 CFR 60, Subpart OOO (Standards of Performance for Nonmetallic Mineral Processing Plants) because they were constructed prior to the applicability date of August 31, 1983.
  - (6) The warehouse conveyor system (EU74); the kiln #2 clinker handling facilities (EU157, EU30, EU31, and EU120); the clinker handling to crane storage facilities (EU32 and EU33), finish mill feed belt (EU132); the 2D finish mill roll press circuit (EU46); the BIC mixer and packer (EU55 and EU56); the raw mill facilities (EU09 through EU15, EU17, EU107 through EU109, and EU158); the kiln #2 (EU27) and kiln #2 feed system (EU26); and the clinker cooler #2 (EU29) are not subject to the requirements of the New Source Performance Standards (NSPS), 40 CFR 60, Subparts A and F (Standards of Performance for Portland Cement Plants) because they are subject to more the stringent requirements of the NESHAP 40 CFR 63 Subpart LLL. None of the other facilities listed in Section D.2 are subject to the requirements of the New Source Performance Standards (NSPS), 40 CFR 60, Subparts A and F (Standards of Performance for Portland Cement Plants) because they are not affected facilities under this rule, or they were constructed prior to the applicability date of August 17, 1971.
- (c) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, IDEM, OAQ, shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.
  - (d) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application. Erroneous information means information that the Permittee knew to be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.
  - (e) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:
    - (1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;
    - (2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;
    - (3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and
    - (4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.
  - (f) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).

- (g) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAQ, has issued the modifications. [326 IAC 2-7-12(c)(7)]
- (h) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAQ, has issued the modification. [326 IAC 2-7-12(b)(8)]

**B.13 Prior Permits Superseded [326 IAC 2-1.1-9.5][326 IAC 2-7-10.5]**

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- (a) All terms and conditions of permits established prior to T019-26989-00008 and issued pursuant to permitting programs approved into the state implementation plan have been either:
  - (1) incorporated as originally stated,
  - (2) revised under 326 IAC 2-7-10.5, or
  - (3) deleted under 326 IAC 2-7-10.5.
- (b) Provided that all terms and conditions are accurately reflected in this permit, all previous registrations and permits are superseded by this Part 70 operating permit.

**B.14 Termination of Right to Operate [326 IAC 2-7-10][326 IAC 2-7-4(a)]**

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The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-7-3 and 326 IAC 2-7-4(a).

**B.15 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-7-5(6)(C)][326 IAC 2-7-8(a)][326 IAC 2-7-9]**

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- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ determines any of the following:
  - (1) That this permit contains a material mistake.
  - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
  - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-7-9(a)(3)]
- (c) Proceedings by IDEM, OAQ to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-7-9(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

B.16 Permit Renewal [326 IAC 2-7-3][326 IAC 2-7-4][326 IAC 2-7-8(e)]

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-7-4. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management  
Permit Administration and Support Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

- (b) A timely renewal application is one that is:
- (1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
  - (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified, pursuant to 326 IAC 2-7-4(a)(2)(D), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.17 Permit Amendment or Modification [326 IAC 2-7-11][326 IAC 2-7-12]

- (a) Permit amendments and modifications are governed by the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 whenever the Permittee seeks to amend or modify this permit.

- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management  
Permit Administration and Support Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

Any such application shall be certified by a "responsible official" as defined by 326 IAC 2-7-1(34).

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

B.18 Permit Revision Under Economic Incentives and Other Programs  
[326 IAC 2-7-5(8)][326 IAC 2-7-12(b)(2)]

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- (a) No Part 70 permit revision or notice shall be required under any approved economic incentives, marketable Part 70 permits, emissions trading, and other similar programs or processes for changes that are provided for in a Part 70 permit.
- (b) Notwithstanding 326 IAC 2-7-12(b)(1) and 326 IAC 2-7-12(c)(1), minor Part 70 permit modification procedures may be used for Part 70 modifications involving the use of economic incentives, marketable Part 70 permits, emissions trading, and other similar approaches to the extent that such minor Part 70 permit modification procedures are explicitly provided for in the applicable State Implementation Plan (SIP) or in applicable requirements promulgated or approved by the U.S. EPA.

B.19 Operational Flexibility [326 IAC 2-7-20][326 IAC 2-7-10.5]

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- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b) or (c) without a prior permit revision, if each of the following conditions is met:
  - (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
  - (2) Preconstruction approval is not required by 326 IAC 2-7-10.5;
  - (3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
  - (4) The Permittee notifies the:  
  
Indiana Department of Environmental Management  
Permit Administration and Support Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251  
  
and  
  
United States Environmental Protection Agency, Region V  
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)  
77 West Jackson Boulevard  
Chicago, Illinois 60604-3590  
  
in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and
  - (5) The Permittee maintains records on-site, on a rolling five (5) year basis, which document all such changes and emission trades that are subject to 326 IAC 2-7-20(b) or (c). The Permittee shall make such records available, upon reasonable request, for public review.  
  
Such records shall consist of all information required to be submitted to IDEM, OAQ in the notices specified in 326 IAC 2-7-20(b)(1) and (c)(1).
- (b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-7-20(a). For each such Section 502(b)(10) of the Clean Air Act change, the required written notification shall include the following:

- (1) A brief description of the change within the source;
- (2) The date on which the change will occur;
- (3) Any change in emissions; and
- (4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted is not considered an application form, report or compliance certification. Therefore, the notification by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

- (c) Emission Trades [326 IAC 2-7-20(c)]  
The Permittee may trade emissions increases and decreases at the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-7-20(c).
- (d) Alternative Operating Scenarios [326 IAC 2-7-20(d)]  
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-7-5(9). No prior notification of IDEM, OAQ, or U.S. EPA is required.
- (e) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

B.20 Source Modification Requirement [326 IAC 2-7-10.5]

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2.

B.21 Inspection and Entry [326 IAC 2-7-6][IC 13-14-2-2][IC 13-30-3-1][IC 13-17-3-2]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a Part 70 source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy any records that must be kept under the conditions of this permit;
- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

**B.22 Transfer of Ownership or Operational Control [326 IAC 2-7-11]**

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- (a) The Permittee must comply with the requirements of 326 IAC 2-7-11 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:
- Indiana Department of Environmental Management  
Permit Administration and Support Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251
- The application which shall be submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

**B.23 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)][326 IAC 2-1.1-7]**

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- (a) The Permittee shall pay annual fees to IDEM, OAQ within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.
- (b) Except as provided in 326 IAC 2-7-19(e), failure to pay may result in administrative enforcement action or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

**B.24 Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314] [326 IAC 1-1-6]**

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For the purpose of submitting compliance certifications or establishing whether or not the Permittee has violated or is in violation of any condition of this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether the Permittee would have been in compliance with the condition of this permit if the appropriate performance or compliance test or procedure had been performed.

## SECTION C

## SOURCE OPERATION CONDITIONS

<b>Entire Source</b>
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### Emission Limitations and Standards [326 IAC 2-7-5(1)]

#### C.1 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-1 (Applicability) and 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

#### C.2 Open Burning [326 IAC 4-1] [IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1.

#### C.3 Incineration [326 IAC 4-2] [326 IAC 9-1-2]

The Permittee shall not operate an incinerator except as provided in 326 IAC 4-2 or in this permit. The Permittee shall not operate a refuse incinerator or refuse burning equipment except as provided in 326 IAC 9-1-2 or in this permit.

#### C.4 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions). 326 IAC 6-4-2(4) is not federally enforceable.

#### C.5 Stack Height [326 IAC 1-7]

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted by using ambient air quality modeling pursuant to 326 IAC 1-7-4. The provisions of 326 IAC 1-7-1(3), 326 IAC 1-7-2, 326 IAC 1-7-3(c) and (d), 326 IAC 1-7-4, and 326 IAC 1-7-5(a), (b), and (d) are not federally enforceable.

#### C.6 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

The Permittee shall comply with the applicable requirements of 326 IAC 14-10, 326 IAC 18, and 40 CFR 61.140.

### Testing Requirements [326 IAC 2-7-6(1)]

#### C.7 Performance Testing [326 IAC 3-6]

- (a) For performance testing required by this permit, a test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

#### **Compliance Requirements [326 IAC 2-1.1-11]**

##### **C.8 Compliance Requirements [326 IAC 2-1.1-11]**

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The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements by issuing an order under 326 IAC 2-1.1-11. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.

#### **Compliance Monitoring Requirements [326 IAC 2-7-5(1)][326 IAC 2-7-6(1)]**

##### **C.9 Compliance Monitoring [326 IAC 2-7-5(3)][326 IAC 2-7-6(1)][40 CFR 64][326 IAC 3-8]**

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- (a) Unless otherwise specified in this permit, for all monitoring requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or of initial start-up, whichever is later, to begin such monitoring. If due to circumstances beyond the Permittee's control, any monitoring equipment required by this permit cannot be installed and operated no later than ninety (90) days after permit issuance or the date of initial startup, whichever is later, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

in writing, prior to the end of the initial ninety (90) day compliance schedule, with full justification of the reasons for the inability to meet this date.

The notification which shall be submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

Unless otherwise specified in the approval for the new emission unit(s), compliance monitoring for new emission units or emission units added through a source modification shall be implemented when operation begins.

- (b) For monitoring required by CAM, at all times, the Permittee shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.
- (c) For monitoring required by CAM, except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the Permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of this part, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The owner or operator shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.

**C.10 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]**

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- (a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale.
- (b) The Permittee may request that the IDEM, OAQ approve the use of an instrument that does not meet the above specifications provided the Permittee can demonstrate that an alternative instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.

**Corrective Actions and Response Steps [326 IAC 2-7-5][326 IAC 2-7-6]**

**C.11 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]**

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Pursuant to 326 IAC 1-5-2 (Emergency Reduction Plans; Submission):

- (a) The Permittee shall maintain the most recently submitted written emergency reduction plans (ERPs) consistent with safe operating procedures.
- (b) Upon direct notification by IDEM, OAQ that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

**C.12 Risk Management Plan [326 IAC 2-7-5(11)] [40 CFR 68]**

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If a regulated substance, as defined in 40 CFR 68, is present at a source in more than a threshold quantity, the Permittee must comply with the applicable requirements of 40 CFR 68.

**C.13 Response to Excursions or Exceedances [40 CFR 64][326 IAC 3-8][326 IAC 2-7-5] [326 IAC 2-7-6]**

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- (a) Upon detecting an excursion where a response step is required by the D Section or an exceedance of a limitation in this permit:
  - (1) The Permittee shall take reasonable response steps to restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing excess emissions.

- (2) The response shall include minimizing the period of any startup, shutdown or malfunction. The response may include, but is not limited to, the following:
    - (A) initial inspection and evaluation;
    - (B) recording that operations returned or are returning to normal without operator action (such as through response by a computerized distribution control system); or
    - (C) any necessary follow-up actions to return operation to normal or usual manner of operation.
  - (3) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
    - (A) monitoring results;
    - (B) review of operation and maintenance procedures and records; and/or
    - (C) inspection of the control device, associated capture system, and the process.
  - (4) Failure to take reasonable response steps shall be considered a deviation from the permit.
  - (5) The Permittee shall record of the reasonable responses steps taken.
- (b)
- (1) CAM Response to Excursions or Exceedances.
    - (A) Upon detecting an excursion or exceedance, subject to CAM, the Permittee shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.
    - (B) Determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process.
  - (2) If the Permittee identifies a failure to achieve compliance with an emission limitation, subject to CAM, or standard, subject to CAM, for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing

document a need to modify the existing indicator ranges or designated conditions, the Permittee shall promptly notify the IDEM, OAQ and, if necessary, submit a proposed significant permit modification to this permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.

- (3) Based on the results of a determination made under paragraph (II)(a)(2) of this condition, the EPA or IDEM, OAQ may require the Permittee to develop and implement a QIP. The Permittee shall develop and implement a QIP if notified to in writing by the EPA or IDEM, OAQ.
- (4) Elements of a QIP:  
The Permittee shall maintain a written QIP, if required, and have it available for inspection. The plan shall conform to 40 CFR 64.8 b (2).
- (5) If a QIP is required, the Permittee shall develop and implement a QIP as expeditiously as practicable and shall notify the IDEM, OAQ if the period for completing the improvements contained in the QIP exceeds 180 days from the date on which the need to implement the QIP was determined.
- (6) Following implementation of a QIP, upon any subsequent determination pursuant to paragraph (II)(a)(2) of this condition the EPA or the IDEM, OAQ may require that the Permittee make reasonable changes to the QIP if the QIP is found to have:
  - (A) Failed to address the cause of the control device performance problems;  
or
  - (B) Failed to provide adequate procedures for correcting control device performance problems as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.
- (7) Implementation of a QIP shall not excuse the Permittee from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under federal, state, or local law, or any other applicable requirements under the Act.
- (8) CAM Recordkeeping Requirements.
  - (A) The Permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to paragraph (II)(a)(2) of this condition and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under this condition (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Section C - General Record Keeping Requirements of this permit contains the Permittee's obligations with regard to the records required by this condition.
  - (B) Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements

C.14 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5][326 IAC 2-7-6]

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the

Permittee shall submit a description of its response actions to IDEM, OAQ, no later than seventy-five (75) days after the date of the test.

- (b) A retest to demonstrate compliance shall be performed no later than one hundred eighty (180) days after the date of the test. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred eighty (180) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The response action documents submitted pursuant to this condition do require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

### **Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]**

#### **C.15 Emission Statement [326 IAC 2-7-5(3)(C)(iii)][326 IAC 2-7-5(7)][326 IAC 2-7-19(c)][326 IAC 2-6]**

- (a) Pursuant to 326 IAC 2-6-3(a)(1), the Permittee shall submit by July 1 of each year an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:
  - (1) Indicate estimated actual emissions of all pollutants listed in 326 IAC 2-6-4(a);
  - (2) Indicate estimated actual emissions of regulated pollutants as defined by 326 IAC 2-7-1 (32) ("Regulated pollutant, which is used only for purposes of Section 19 of this rule") from the source, for purpose of fee assessment.

The statement must be submitted to:

Indiana Department of Environmental Management  
Technical Support and Modeling Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-51 IGCN 1003  
Indianapolis, Indiana 46204-2251

The emission statement does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

#### **C.16 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6] [326 IAC 2-2][326 IAC 2-3]**

- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. Support information includes the following:
  - (AA) All calibration and maintenance records.
  - (BB) All original strip chart recordings for continuous monitoring instrumentation.
  - (CC) Copies of all reports required by the Part 70 permit.

Records of required monitoring information include the following:

- (AA) The date, place, as defined in this permit, and time of sampling or measurements.
- (BB) The dates analyses were performed.
- (CC) The company or entity that performed the analyses.
- (DD) The analytical techniques or methods used.
- (EE) The results of such analyses.

- (FF) The operating conditions as existing at the time of sampling or measurement.

These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

- (b) Unless otherwise specified in this permit, for all record keeping requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or the date of initial start-up, whichever is later, to begin such record keeping.
- (c) If there is a reasonable possibility (as defined in 326 IAC 2-2-8(b)(6)(A), 326 IAC 2-2-8(b)(6)(B), 326 IAC 2-3-2(l)(6)(A), and/or 326 IAC 2-3-2 (l)(6)(B)) that a "project" (as defined in 326 IAC 2-2-1(oo) and/or 326 IAC 2-3-1(jj)) at an existing emissions unit, other than projects at a source with a Plantwide Applicability Limitation (PAL), which is not part of a "major modification" (as defined in 326 IAC 2-2-1(dd) and/or 326 IAC 2-3-1(y)) may result in significant emissions increase and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1(pp) and/or 326 IAC 2-3-1(kk)), the Permittee shall comply with following:
- (1) Before beginning actual construction of the "project" (as defined in 326 IAC 2-2-1(oo) and/or 326 IAC 2-3-1(jj)) at an existing emissions unit, document and maintain the following records:
- (A) A description of the project.
- (B) Identification of any emissions unit whose emissions of a regulated new source review pollutant could be affected by the project.
- (C) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including:
- (i) Baseline actual emissions;
- (ii) Projected actual emissions;
- (iii) Amount of emissions excluded under section 326 IAC 2-2-1(pp)(2)(A)(iii) and/or 326 IAC 2-3-1(kk)(2)(A)(iii); and
- (iv) An explanation for why the amount was excluded, and any netting calculations, if applicable.
- (d) If there is a reasonable possibility (as defined in 326 IAC 2-2-8(b)(6)(A) and/or 326 IAC 2-3-2(l)(6)(A)) that a "project" (as defined in 326 IAC 2-2-1(oo) and/or 326 IAC 2-3-1(jj)) at an existing emissions unit, other than projects at a source with a Plantwide Applicability Limitation (PAL), which is not part of a "major modification" (as defined in 326 IAC 2-2-1(dd) and/or 326 IAC 2-3-1(y)) may result in significant emissions increase and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1(pp) and/or 326 IAC 2-3-1(kk)), the Permittee shall comply with following:
- (1) Monitor the emissions of any regulated NSR pollutant that could increase as a result of the project and that is emitted by any existing emissions unit identified in (1)(B) above; and

- (2) Calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of five (5) years following resumption of regular operations after the change, or for a period of ten (10) years following resumption of regular operations after the change if the project increases the design capacity of or the potential to emit that regulated NSR pollutant at the emissions unit.

C.17 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] [326 IAC 2-2]  
[40 CFR 64][326 IAC 3-8]

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- (a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Proper notice submittal under Section B - Emergency Provisions satisfies the reporting requirements of this paragraph. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported except that a deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. This report shall be submitted not later than thirty (30) days after the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34). A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

On and after the date by which the Permittee must use monitoring that meets the requirements of 40 CFR Part 64 and 326 IAC 3-8, the Permittee shall submit CAM reports to the IDEM, OAQ.

A report for monitoring under 40 CFR Part 64 and 326 IAC 3-8 shall include, at a minimum, the information required under paragraph (a) of this condition and the following information, as applicable:

- (1) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;
- (2) Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and
- (3) A description of the actions taken to implement a QIP during the reporting period as specified in Section C-Response to Excursions or Exceedances. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.

The Permittee may combine the Quarterly Deviation and Compliance Monitoring Report and a report pursuant to 40 CFR 64 and 326 IAC 3-8.

- (b) The address for report submittal is:

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (d) The first report shall cover the period commencing on the date of issuance of this permit or the date of initial start-up, whichever is later, and ending on the last day of the reporting period. Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.
- (e) If the Permittee is required to comply with the recordkeeping provisions of (d) in Section C - General Record Keeping Requirements for any "project" (as defined in 326 IAC 2-2-1 (oo) and/or 326 IAC 2-3-1(jj)) *at an existing emissions unit*, and the project meets the following criteria, then the Permittee shall submit a report to IDEM, OAQ:
- (1) The annual emissions, in tons per year, from the project identified in (c)(1) in Section C - General Record Keeping Requirements exceed the baseline actual emissions, as documented and maintained under Section C - General Record Keeping Requirements (c)(1)(C)(i), by a significant amount, as defined in 326 IAC 2-2-1(ww) and/or 326 IAC 2-3-1(pp), for that regulated NSR pollutant, and
  - (2) The emissions differ from the preconstruction projection as documented and maintained under Section C - General Record Keeping Requirements (c)(1)(C)(ii).
- (f) The report *for project at an existing emissions unit* shall be submitted within sixty (60) days after the end of the year and contain the following:
- (1) The name, address, and telephone number of the major stationary source.
  - (2) The annual emissions calculated in accordance with (d)(1) and (2) in Section C - General Record Keeping Requirements.
  - (3) The emissions calculated under the actual-to-projected actual test stated in 326 IAC 2-2-2(d)(3) and/or 326 IAC 2-3-2(c)(3).
  - (4) Any other information that the Permittee wishes to include in this report such as an explanation as to why the emissions differ from the preconstruction projection.

Reports required in this part shall be submitted to:

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

- (g) The Permittee shall make the information required to be documented and maintained in accordance with (c) in Section C- General Record Keeping Requirements available for review upon a request for inspection by IDEM, OAQ. The general public may request this information from the IDEM, OAQ under 326 IAC 17.1.

## **Stratospheric Ozone Protection**

### **C.18 Compliance with 40 CFR 82 and 326 IAC 22-1**

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Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with applicable standards for recycling and emissions reduction.

## SECTION D.1 FACILITY OPERATION CONDITIONS - Quarry Activities, Stockpile Operations, Raw Material Sizing, and CKD Operations

**Facility Description [326 IAC 2-7-5(14)]** Note: Complete facility descriptions are in Section A.2.

### Quarry Activities

- (1) Quarry drilling, identified as EU01.
- (2) Quarry blasting, identified as EU75.
- (3) Raw material (limestone) loading to trucks, identified as EU76.

### Raw Material Stockpile Operations

- (4) Raw material (clay overburden) unloading to strippings stockpile, identified as EU78.
- (5) Strippings stockpile, identified as EU145.
- (6) Truck unloading to additive hopper or additive storage piles (various sources of Silica/Alumina/Iron), identified as EU99.
- (7) Various sources of Silica/Alumina/Iron additive storage piles, identified as EU100.
- (8) Additive clay blend pile, identified as EU101.
- (9) Truck unloading to clay storage piles, identified as EU102.
- (10) Uncovered clay storage pile, identified as EU103.
- (11) Covered clay and ash storage piles, identified as EU104.

### Raw Material Sizing Operations

- (12) Raw material unloading to stone surge pile or primary crusher, identified as EU80.
- (13) Stone surge pile, identified as EU81.
- (14) One (1) primary crusher, identified as EU82.
- (15) One (1) covered conveyor belt, identified as EU83.
- (16) Screens, identified as EU84.
- (17) One (1) secondary crusher, identified as EU02.
- (18) Covered conveyor, identified as EU03.
- (19) One (1) tertiary crusher, identified as EU04.
- (20) One (1) conveyor used to bypass tertiary crusher, identified as EU05.
- (21) One (1) covered conveyor, identified as EU85.
- (22) One (1) traveling belt, identified as EU86.
- (23) North stone bin, identified as EU06.
- (24) South stone bin, identified as EU07.
- (25) Stone conveyor transfer to truck, identified as EU87.
- (26) One (1) truck unloading station to crushed limestone storage pile, identified as EU89.
- (27) One (1) truck loading station from crushed limestone storage pile, identified as EU91.
- (28) One (1) truck unloading station to truck dump hopper, identified as EU93.
- (29) One (1) truck unloading station to emergency limestone storage pile, identified as EU94.
- (30) Crushed limestone storage piles, identified as EU90.
- (31) Emergency limestone storage pile, identified as EU95.
- (32) One (1) truck dump hopper, identified as EU96.
- (33) One (1) limestone conveyor, identified as EU97.
- (34) Main limestone storage pile, identified as EU98.

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**Kiln #1 Cement Kiln Dust (CKD) Operations**

- (35) One (1) dust tank system, identified as EU21.
- (36) Truck loading from baghouse 221, identified as EU113.
- (37) CKD storage pile, identified as EU118.
- (38) CKD sales loadout spout (kiln #1 dust tank), identified as EU155.

**Kiln #2 Cement Kiln Dust (CKD) Operations**

- (39) Truck loading from the elevator dust tank, identified as EU115.
- (40) Truck loading from baghouse 16 (alkali bypass system), identified as EU117.
- (41) One (1) elevator/dust tank (associated with the alkali bypass) for kiln #2, identified as EU28.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

**Emission Limitations and Standards [326 IAC 2-7-5(1)]**

**D.1.1 Prevention of Significant Deterioration (PSD) Minor Limit for PM/PM<sub>10</sub> [326 IAC 2-2]**

- (a) Pursuant to Part 70 Permit T019-6016-00008 (issued June 28, 2012), in order to render the requirements of 326 IAC 2-2 (PSD) not applicable, the PM<sub>10</sub> emissions from the baghouse controlling the CKD sales loadout spout (kiln #1 dust tank) (EU155) shall not exceed 0.65 pounds per hour and the PM emissions shall not exceed 1.08 pounds per hour. Therefore, the requirements of 326 IAC 2-2 (PSD) shall not apply.
- (b) Pursuant to Part 70 Permit T019-6016-00008 (issued June 28, 2012), in order to render the requirements of 326 IAC 2-2 (PSD) not applicable, the number of holes drilled by the quarry drilling process shall not exceed 38,000 per twelve (12) consecutive month period and the PM emissions shall not exceed 1.3 pounds per hole. Therefore, the requirements of 326 IAC 2-2 (PSD) shall not apply.

**D.1.2 Particulate Matter (PM) [326 IAC 6.5-1-2]**

Pursuant to 326 IAC 6.5-1-2, particulate emissions from each of the following facilities shall not exceed 0.03 grains per dry standard cubic foot (dscf) of exhaust air.

- (a) Quarry drilling, identified as EU01.
- (b) Covered conveyor, identified as EU03.
- (c) One (1) conveyor used to bypass tertiary crusher, identified as EU05.
- (d) One (1) dust tank system, identified as EU21.
- (e) Truck loading from baghouse 221, identified as EU113.
- (f) CKD sales loadout spout (kiln #1 dust tank), identified as EU155.
- (g) Truck loading from the elevator dust tank, identified as EU115.

**D.1.3 Particulate Emissions [326 IAC 6-3-2]**

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), particulate emissions from the following operations shall each not exceed the pound per hour limit E when operating at the maximum process weight rate P.

- (a) One (1) secondary crusher, identified as EU02.
- (b) One (1) tertiary crusher, identified as EU04.
- (c) North stone bin, identified as EU06.
- (d) South stone bin, identified as EU07.
- (e) One (1) elevator/dust tank (associated with the alkali bypass), identified as EU28.

The pounds per hour limitations (e) shall be calculated with the following equations:

Interpolation of the data for the process weight rates up to (and including) 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 4.1 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

Interpolation and extrapolation of the data for the process weight rates in excess of 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 55.0 P^{0.11} - 40 \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

When the process weight rate exceeds 200 tons per hour, the maximum allowable emission may exceed the pound per hour limit calculated using the above-referenced equation, provided the concentration of particulate matter in the discharge gases to the atmosphere is less than 0.10 pounds per on thousand (1,000) pounds of gases.

**D.1.4 Preventive Maintenance Plan [326 IAC 2-7-5(12)]**

A Preventive Maintenance Plan is required for the control devices listed in this section. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

**Compliance Determination Requirements**

**D.1.5 Particulate Matter (PM) Control**

(a) In order to comply with Conditions D.1.1 - Prevention of Significant Deterioration (PSD) Minor Limit for PM/PM<sub>10</sub>, D.1.2 - Particulate Matter (PM), and D.1.3 - Particulate Emissions, each baghouse for particulate control shall be in operation and control emissions at all times an associated facility, as listed in the table below, is in operation.

Unit ID (Unit Description)	Baghouse ID
EU01 - quarry drilling	drilling rig baghouse 01
EU02 - secondary crusher	200
EU03 - covered conveyor for transferring stone from screens and secondary crusher to tertiary crusher or stone ladder bypass	201
EU04 - tertiary crusher	201
EU05 - stone ladder	201
EU06 - north stone bin	101
EU07 - south stone bin	102
EU21 - dust tank system	210
EU155 - CKD sales loadout spout	266
EU28 - elevator/dust tank for kiln #2	232

**D.1.6 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]**

Not later than ninety (90) days after the first day of operation after issuance of this permit (Part 70 Operating Permit Renewal No. 019-26989-00008), in order to demonstrate compliance with Conditions D.1.1 - Prevention of Significant Deterioration (PSD) and Condition D.1.2 - Particulate Matter (PM), the Permittee shall perform PM and PM<sub>10</sub> testing on baghouse 266 controlling the CKD sales loadout spout (kiln #1 dust tank) (EU155). Testing shall be conducted utilizing methods approved by the Commissioner and shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing

contains the Permittee's obligation with regard to the performance testing required by this condition. All associated facilities exhausting to a single stack must all be operating when determining compliance with the limit.

### **Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]**

#### **D.1.7 Visible Emissions Notations**

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- (a) Visible emission notations of each of the baghouse stack exhausts shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, at least eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable response. Section C – Response to Excursions and Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

Compliance with these monitoring requirements satisfies, in part, CAM for the following units: secondary crusher (EU02), covered conveyor (EU03), tertiary crusher (EU04), conveyor used to bypass tertiary crusher (EU05), north stone bin (EU06), and south stone bin (EU07), dust tank system (EU21), CKD sales loadout spout (kiln #1 dust tank) (EU155), and elevator/dust tank (associated with the alkali bypass) for kiln #2 (EU28).

#### **D.1.8 Parametric Monitoring**

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The Permittee shall record the pressure drop across each baghouse, used in conjunction with the facilities listed in this section, at least once per day when the associated facility is in operation. When for any one reading, the pressure drop across a baghouse is outside the normal range of 1.0 to 8.0 inches of water or the range established during the most recent stack test, the Permittee shall take reasonable response. Section C – Response to Excursions and Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the normal range is not a deviation from this permit. Failure to take response shall be considered a deviation from this permit.

The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated or replaced at least once every six (6) months or other time period specified by the manufacturer. The Permittee shall maintain records of the manufacturer specifications, if used.

Compliance with these monitoring requirements satisfies, in part, CAM for the following units: secondary crusher (EU02), covered conveyor (EU03), tertiary crusher (EU04), conveyor used to bypass tertiary crusher (EU05), north stone bin (EU06), and south stone bin (EU07), dust tank system (EU21), CKD sales loadout spout (kiln #1 dust tank) (EU155), and elevator/dust tank (associated with the alkali bypass) for kiln #2 (EU28).

#### **D.1.9 Broken or Failed Bag Detection**

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- (a) For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the

event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

- (b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the line. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

## **Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]**

### **D.1.10 Record Keeping Requirements**

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- (a) To document the compliance status with Condition D.1.7 - Visible Emissions Notations, the Permittee shall maintain records of visible emission notations required by that condition. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).
- (b) To document the compliance status with Condition D.1.8 - Parametric Monitoring, the Permittee shall maintain records of the pressure drop readings required by that condition. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of pressure drop reading (e.g. the process did not operate that day).
- (c) To document the compliance status with Condition D.1.1(b) - Prevention of Significant Deterioration (PSD) Minor Limit for PM, the Permittee shall maintain records of the number of holes drilled at the quarry.
- (d) Section C - General Record Keeping Requirements of this permit contains the Permittee's obligation with regard to the records required by this condition.

### **D.1.11 Reporting Requirements**

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A quarterly summary of the information to document the compliance status with the limit specified in Condition D.1.1(b) - Prevention of Significant Deterioration (PSD) Minor Limit PM shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. This report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

**SECTION D.2 FACILITY OPERATION CONDITIONS - Miscellaneous Facilities, Clay Processing Operations, Finish Operations Crane Storage Facilities, Fossil Fuel Storage and Handling Facilities, Clinker Handling Facilities, Clinker Handling to Crane Storage Facilities, Finish Mill Facilities, and Silos**

**Facility Description [326 IAC 2-7-5(14)]** Note: Complete facility descriptions are in Section A.2.

**Miscellaneous Facilities**

- (42) Plant Roads, identified as EU152.
- (43) One (1) warehouse conveyor system for conveying bagged cement, identified as EU74.

**Clay Processing Operations**

- (44) Clay hopper, identified as EU105.
- (45) One (1) covered conveyor system, identified as EU106.
- (46) One (1) clay crusher, identified as EU08.

**Finish Operations Crane Storage Facilities**

- (47) Emergency BP stone storage pile, identified as EU128.
- (48) One (1) truck unloading station, identified as EU127.
- (49) One (1) truck unloading station to gypsum storage piles, identified as EU129.
- (50) Crane storage building, identified as EU131.
- (51) Gypsum storage piles, identified as EU130 and EU134.

**Fossil Fuel Storage and Handling Facilities**

- (52) Coal trucks unloading to the coal storage piles and reserve coal storage piles, identified as EU136.
- (53) Reserve coal storage piles, identified as EU137.
- (54) Coal storage piles, identified as EU142.
- (55) One (1) coal draw-up covered conveying system, identified as EU63.
- (56) Coal transfer tower, identified as EU64.
- (57) One (1) coal bin, identified as EU65.

**Kiln #1 Clinker Handling Facilities**

- (58) One (1) #1 clinker drag conveyor, identified as EU23.
- (59) Apron conveyor, identified as EU24.
- (60) Clinker can #1, identified as EU114.

**Kiln #2 Clinker Handling Facilities**

- (61) One (1) Kreyling hopper, identified as EU157.
- (62) One (1) #2 clinker drag conveyor, identified as EU30.
- (63) One (1) aumond conveyor, identified as EU31.
- (64) One (1) cross belt, identified as EU119.
- (65) Clinker can #2, identified as EU120.

**Clinker Handling to Crane Storage Facilities**

- (66) One (1) long belt, identified as EU25.
- (67) One (1) North clinker transfer tower, identified as EU32.
- (68) One (1) covered incline belt, identified as EU33.
- (69) One (1) clinker storage pile, identified as EU121.
- (70) North clinker storage pile, identified as EU122.
- (71) North clinker storage building, identified as EU123.

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**Clinker Handling to Crane Storage Facilities (continued)**

- (72) One (1) North reclaim clinker covered conveyor system, identified as EU34.
- (73) One (1) South reclaim clinker covered conveyor, identified as EU124.
- (74) Truck loading station, identified as EU125.
- (75) Truck unloading station, identified as EU126.

**2ABC Finish Mill Facilities**

- (76) One (1) Base tank (CKD), identified as EU146.
- (77) One (1) gypsum/stone/clinker transfer circuit ABC mills, identified as EU35.
- (78) Two (2) clinker elevators, identified as EU37.
- (79) One (1) 2BC finish mill feed belt, identified as EU132.
- (80) 2A hopper / preliminary ball mill used to grind clinker and gypsum, identified as EU38.
- (81) One (1) finish mill circuit 2A, identified as EU39.
- (82) One (1) finish mill circuit 2B, identified as EU40.
- (83) One (1) finish mill circuit 2C, identified as EU42.
- (84) One (1) separator circuit, which includes an air transport system and pump, identified as EU43.
- (85) One (1) separator, which includes an air transport system and pump, identified as EU41.
- (86) One (1) BP tank for storing finished product (cement), identified as EU48.
- (87) One (1) pump used to transfer finished product (cement) from the BP tank to silos, identified as EU49.

**Finish Mill 2 Facilities**

- (88) One (1) gypsum elevator, identified as EU135.
- (89) One (1) 2D finish mill clinker bin transfer, identified as EU44.
- (90) One (1) 2D finish mill clinker / gypsum feed circuit, identified as EU45.
- (91) One (1) 2D finish mill roll press circuit with surge bin, identified as EU46.
- (92) One (1) 2D finish mill circuit, identified as EU47.

**Finish Product 501-Silos Storage and Packing Facilities**

- (93) 501-Silos 25-44, identified as EU54.
- (94) One (1) BIC mixer for mixing lime and pigment with the cement, identified as EU55.
- (95) One (1) BIC packer for loading cement into bags, identified as EU56.

**Finish Product 506-Silos Storage, Packing, and Bulk Loading Facilities**

- (96) 506-Silos 56-73, identified as EU53.
- (97) Two (2) bulk loading stations for railroad cars and trucks, identified as EU57 and EU58.
- (98) One (1) north packer #1 for loading cement into bags, identified as EU59.
- (99) One (1) center packer #2 for loading cement into bags, identified as EU60.
- (100) One (1) south packer #3 for loading cement into bags, identified as EU61.
- (101) One (1) bag compression station, identified as EU62.

**Finish Product 504-Silos Storage and Bulk Loading Facilities**

- (102) 504-Silos 45-48, and 50-55, identified as EU51.
- (103) One (1) bulk loading station for trucks and railroad cars, identified as EU52.
- (104) 504 Silos Bank/Silo 49 (CKD sales), identified as EU153.
- (105) CKD sales loadout spout for CKD destined for sale and/or reuse into process, identified as EU154.

**Finish Product 502-Silos Storage and Bulk Loading Facilities**

- (106) 502-Silos 1, 2, and 7-11, identified as EU50.

**Insignificant Activities:** Note: Complete insignificant activity descriptions are in Section A.3.

**Finish Product 501-Silos Storage and Packing Facilities**

- (4) One (1) bag flattener for eliminating void space in cement bags at the BIC packer, identified as EU156.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

**Emission Limitations and Standards [326 IAC 2-7-5(1)]**

**D.2.1 Prevention of Significant Deterioration (PSD) Minor Limits for PM/PM<sub>10</sub> [326 IAC 2-2]**

Pursuant to Part 70 Permit T019-6016-00008 (issued June 15, 2004), in order to render the requirements of PSD not applicable, the following conditions shall apply:

- (a) The PM emissions from baghouses 261, DC35990, and DC35997 controlling the 2D finish mill roll press circuit with surge bin (EU46) shall not exceed 4.53 pounds per hour (limit for all three (3) baghouses combined).
- (b) The PM<sub>10</sub> emissions from baghouses 261, DC35990, and DC35997 controlling the 2D finish mill roll press circuit with surge bin (EU46) shall not exceed 2.71 pounds per hour (limit for all three (3) baghouses combined).
- (c) The PM emissions from baghouse 249 controlling the warehouse conveyor system (EU74) shall not exceed 4.58 pounds per hour.
- (d) The PM emissions from baghouse 265 controlling the CKD sales loadout spout (EU154) shall not exceed 1.15 pounds per hour.
- (e) The PM<sub>10</sub> emissions from baghouse 265 controlling the CKD sales loadout spout (EU154) shall not exceed 0.69 pounds per hour.

Therefore, the requirements of 326 IAC 2-2 (PSD) are rendered not applicable.

**D.2.2 Particulate Matter (PM) Limitations [326 IAC 6.5-1-2]**

Pursuant to 326 IAC 6.5-1-2, particulate emissions from each of the following facilities shall not exceed 0.03 grains per dry standard cubic foot (dscf) of exhaust air.

- (a) One (1) coal draw-up covered conveying system, identified as EU63.
- (b) Coal transfer tower, identified as EU64.
- (c) One (1) coal bin, identified as EU65.
- (d) Clinker can #1, identified as EU114.
- (e) One (1) #2 clinker drag conveyor, identified as EU30.
- (f) One (1) almond conveyor, identified as EU31.
- (g) One (1) cross belt, identified as EU119.
- (h) Clinker can #2, identified as EU120.
- (i) One (1) covered incline belt, identified as EU33.
- (j) North clinker storage building, identified as EU123.
- (k) One (1) 2D finish mill clinker / gypsum feed circuit, identified as EU45.
- (m) CKD sales loadout spout for CKD destined for sale and/or reuse into process, identified as EU154.
- (n) One (1) bag flattener for eliminating void space in cement bags at the BIC packer, identified as EU156.

### D.2.3 Particulate Emissions [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), particulate emissions from the following operations shall each not exceed the pound per hour limit E when operating at the maximum process weight rate P.

- (a) One (1) warehouse conveyor system for conveying bagged cement, identified as EU74.
- (b) One (1) clay crusher, identified as EU08.
- (c) One (1) #1 clinker drag conveyor, identified as EU23.
- (d) Apron conveyor, identified as EU24.
- (e) One (1) long belt, identified as EU25.
- (f) One (1) North clinker transfer tower, identified as EU32.
- (g) One (1) North reclaim clinker covered conveyor system, identified as EU34.
- (h) One (1) South reclaim clinker covered conveyor, identified as EU124.
- (i) One (1) Base tank (CKD), identified as EU146.
- (j) One (1) gypsum/stone/clinker transfer circuit ABC mills, identified as EU35.
- (k) Two (2) clinker elevators, identified as EU37.
- (l) One (1) 2BC finish mill feed belt, identified as EU132.
- (m) 2A hopper / preliminary ball mill used to grind clinker and gypsum, identified as EU38.
- (n) One (1) finish mill circuit 2A, identified as EU39.
- (o) One (1) finish mill circuit 2B, identified as EU40.
- (p) One (1) finish mill circuit 2C, identified as EU42.
- (q) One (1) separator circuit, which includes an air transport system and pump, identified as EU43.
- (r) One (1) separator, which includes an air transport system and pump, identified as EU41.
- (s) One (1) BP tank for storing finished product (cement), identified as EU48.
- (t) One (1) pump used to transfer finished product (cement) from the BP tank to silos, identified as EU49.
- (u) One (1) gypsum elevator, identified as EU135.
- (v) One (1) 2D finish mill clinker bin transfer, identified as EU44.
- (w) One (1) 2D finish mill roll press circuit with surge bin, identified as EU46.
- (x) One (1) 2D finish mill circuit, identified as EU47.
- (y) 501-Silos 25-44, identified as EU54.
- (z) One (1) BIC mixer for mixing lime and pigment with the cement, identified as EU55.
- (aa) One (1) BIC packer for loading cement into bags, identified as EU56.
- (bb) 506-Silos 56-73, identified as EU53.
- (cc) Two (2) bulk loading stations for railroad cars and trucks, identified as EU57 and EU58.
- (dd) One (1) north packer #1 for loading cement into bags, identified as EU59.
- (ee) One (1) center packer #2 for loading cement into bags, identified as EU60.
- (ff) One (1) south packer #3 for loading cement into bags, identified as EU61.
- (gg) One (1) bag compression station, identified as EU62.
- (hh) 504-Silos 45-48, and 50-55, identified as EU51.
- (ii) One (1) bulk loading station for trucks and railroad cars, identified as EU52.
- (jj) 504 Silos Bank/Silo 49 (CKD sales), identified as EU153.
- (kk) 502-Silos 1, 2, and 7-11, identified as EU50.

The pounds per hour limitations (e) shall be calculated with the following equations:

Interpolation of the data for the process weight rates up to (and including) 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 4.1 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

Interpolation and extrapolation of the data for the process weight rates in excess of 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 55.0 P^{0.11} - 40 \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

When the process weight rate exceeds 200 tons per hour, the maximum allowable emission may exceed the pound per hour limit calculated using the above-referenced equation, provided the concentration of particulate matter in the discharge gases to the atmosphere is less than 0.10 pounds per on thousand (1,000) pounds of gases.

**D.2.4 Preventive Maintenance Plan [326 IAC 2-7-5(12)]**

A Preventive Maintenance Plan is required for the control devices listed in this section. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

**Compliance Determination Requirements**

**D.2.5 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]**

- (a) Not later than ninety (90) days after the first day of operation after issuance of this permit (Part 70 Operating Permit Renewal No. 019-26989-00008), in order to determine compliance with Condition D.2.1 - Prevention of Significant Deterioration (PSD) and Condition D.2.2 - Particulate Matter (PM) Limitations, the Permittee shall perform PM testing on baghouse 265 controlling CKD sales loadout spout (EU154).
- (b) Not later than ninety (90) days after the first day of operation after issuance of this permit (Part 70 Operating Permit Renewal No. 019-26989-00008), in order to determine compliance with Condition D.2.1 - Prevention of Significant Deterioration (PSD), the Permittee shall perform PM<sub>10</sub> testing on baghouse 265 controlling CKD sales loadout spout (EU154).

Testing shall be conducted utilizing methods approved by the Commissioner and shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by the condition. All associated facilities exhausting to a single stack must all be operating when determining compliance with the limit.

**D.2.6 Particulate Matter (PM) Control**

- (a) In order to comply with Conditions D.2.1 - Prevention of Significant Deterioration (PSD) Minor Limit for PM/PM<sub>10</sub>, D.2.2 - Particulate Matter (PM), and D.2.3 - Particulate Emissions, each baghouse for particulate control shall be in operation and control emissions at all times an associated facility, as listed in the table below, is in operation.

Unit ID (Unit Description)	Baghouse ID
EU74 - warehouse conveyor system for conveying bagged cement	249
EU08 - clay crusher	227
EU63 - coal draw-up covered conveying system	206
EU64 - coal transfer tower	207
EU65 - coal bin	208
EU23 - #1 clinker drag conveyor	217
EU24 - apron conveyor	218
EU114 - clinker can #1	31382
EU30 - #2 clinker drag conveyor	233
EU31 - aumond conveyor	234
EU119 - cross belt for transferring clinker to the long belt	218
EU120 - clinker can #2	31382

Unit ID (Unit Description)	Baghouse ID
EU25 - long belt for transferring clinker from the apron conveyor and the cross belt to the North clinker transfer tower	218 / 35925
EU32 - north clinker transfer tower	35925
EU33 - covered incline belt	35931
EU34 - north reclaim clinker covered conveyor system	35927
EU124 - south reclaim clinker covered conveyor	202 / 31499
EU146 - Base tank (CKD)	143
EU35 - gypsum/stone/clinker transfer circuit ABC mills	131 / 31495 / 31496
EU37 - clinker elevators	133
EU38 - 2A hopper / preliminary ball mill	133
EU39 - finish mill circuit 2A	134
EU40 - finish mill circuit 2B	135
EU42 - finish mill circuit 2C	137
EU43 - separator circuit, which includes an air transport system and pump (finish mill circuit 2C)	138
EU41 - separator, which includes an air transport system and pump (finish mill circuit 2B)	136
EU48 - BP tank for storing finished product (cement)	144
EU49 - pump used to transfer finished product (cement) from the BP tank to silos	146
EU135 - gypsum elevator (2D finish mill circuit)	120
EU44 - 2D finish mill clinker bin transfer	120
EU45 - 2D finish mill clinker / gypsum feed circuit	31497 / 31498 / 36643
EU46 - 2D finish mill roll press circuit with surge bin	261 / DC35990 / DC35997
EU47 - 2D finish mill circuit	139 / 36643
EU54 - 501-Silos 25-44	224 / 225 / 246 / 150 / 151
EU55 - BIC mixer for mixing lime and pigment with the cement	224 and 225
EU56 - BIC packer for loading cement into bags	224 and 225
EU53 - 506-Silos 56-73	159 - 172
EU57 - bulk loading station	176
EU58 - bulk loading station	177
EU59 - north packer #1 for loading cement into bags	173
EU60 - center packer #2 for loading cement into bags	174
EU61 - south packer #3 for loading cement into bags	175
EU62 - bag compression station	242
EU51 - 504-Silos 45-48, and 50-55	153 - 156
EU52 - bulk loading station for trucks and railroad cars	152
EU153 - 504 Silos Bank/Silo 49 (CKD sales)	264
EU154 - CKD sales loadout spout for CKD destined for sale and/or reuse into process	265
EU50 - 502-Silos 1, 2, and 7-11	148 / 149

## Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

### D.2.7 Visible Emissions Notations

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- (a) Visible emission notations of each of the baghouse stack exhausts shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, at least eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable response. Section C – Response to Excursions and Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

Compliance with these monitoring requirements satisfies, in part, CAM for the following units: warehouse conveyors system for conveying bagged cement (EU74), clay crusher (EU08), coal draw-up covered conveying system (EU63), #1 clinker drag conveyor (EU23), apron conveyor (EU24), clinker can #1 (EU114), #2 clinker drag conveyor (EU30), almond conveyor (EU31), cross belt (EU119), clinker can #2 (EU120), long belt (EU25), north clinker transfer tower (EU32), covered incline belt (EU33), north clinker storage building (EU123), north reclaim clinker covered conveyor system (EU34), clinker can #2 (EU120), south reclaim clinker covered conveyor (EU124), base tank (CKD) (EU146), gypsum/stone/clinker transfer circuit ABC mills (EU35), clinker elevators (EU37), 2BC finish mill feed belt (EU132), 2A hopper / preliminary ball mill used to grind clinker and gypsum (EU38), finish mill circuit 2A (EU39), finish mill circuit 2B (EU40), finish mill circuit 2C (EU42), separator circuit, which includes an air transport system and pump (EU43), separator, which includes an air transport system and pump (EU41), BP tank for storing finished product (cement) (EU48), pump used to transfer material from the BP tank to silos (EU49), gypsum elevator (EU135), 2D finish mill clinker bin transfer (EU44), 2D finish mill clinker / gypsum feed circuit (EU45), 2D finish mill roll press circuit with surge bin (EU46), 2D finish mill circuit (EU47), 501-Silos 25-44 (EU54), BIC mixer for mixing lime and pigment with the cement (EU55), BIC packer for loading cement into bags (EU56), 506-Silos 56-73 (EU53), bulk loading stations for railroad cars and trucks (EU57 and EU58), bag compression station (EU62), 504-Silos 45-48, and 50-55 (EU51), bulk loading station for trucks and railroad cars (EU52), 504 Silos Bank/Silo 49 (CKD sales) (EU153), CKD sales loadout spout for CKD destined for sale and/or reuse into process (EU154), and 502-Silos 1, 2, and 7-11 (EU50).

### D.2.8 Baghouse Parametric Monitoring

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The Permittee shall record the pressure drop across each baghouse, used in conjunction with the facilities listed in this section, at least once per day when the associated facility is in operation. When for any one reading, the pressure drop across a baghouse is outside the normal range of 1.0 to 8.0 inches of water or the range established during the most recent stack test, the Permittee shall take reasonable response. Section C – Response to Excursions and Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the normal range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated

or replaced at least once every six (6) months or other time period specified by the manufacturer. The Permittee shall maintain records of the manufacturer specifications, if used.

Compliance with these monitoring requirements satisfies, in part, CAM for the following units: warehouse conveyors system for conveying bagged cement (EU74), clay crusher (EU08), coal draw-up covered conveying system (EU63), #1 clinker drag conveyor (EU23), apron conveyor (EU24), clinker can #1 (EU114), #2 clinker drag conveyor (EU30), almond conveyor (EU31), cross belt (EU119), clinker can #2 (EU120), long belt (EU25), north clinker transfer tower (EU32), covered incline belt (EU33), north clinker storage building (EU123), north reclaim clinker covered conveyor system (EU34), clinker can #2 (EU120), south reclaim clinker covered conveyor (EU124), base tank (CKD) (EU146), gypsum/stone/clinker transfer circuit ABC mills (EU35), clinker elevators (EU37), 2BC finish mill feed belt (EU132), 2A hopper / preliminary ball mill used to grind clinker and gypsum (EU38), finish mill circuit 2A (EU39), finish mill circuit 2B (EU40), finish mill circuit 2C (EU42), separator circuit, which includes an air transport system and pump (EU43), separator, which includes an air transport system and pump (EU41), BP tank for storing finished product (cement) (EU48), pump used to transfer material from the BP tank to silos (EU49.), gypsum elevator (EU135), 2D finish mill clinker bin transfer (EU44), 2D finish mill clinker / gypsum feed circuit (EU45), 2D finish mill roll press circuit with surge bin (EU46), 2D finish mill circuit (EU47), 501-Silos 25-44 (EU54), BIC mixer for mixing lime and pigment with the cement (EU55), BIC packer for loading cement into bags (EU56), 506-Silos 56-73 (EU53), bulk loading stations for railroad cars and trucks (EU57 and EU58), bag compression station (EU62), 504-Silos 45-48, and 50-55 (EU51), bulk loading station for trucks and railroad cars (EU52), 504 Silos Bank/Silo 49 (CKD sales) (EU153), CKD sales loadout spout for CKD destined for sale and/or reuse into process (EU154), and 502-Silos 1, 2, and 7-11 (EU50).

#### D.2.9 Broken or Failed Bag Detection

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- (a) For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the line. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

### **Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]**

#### D.2.10 Record Keeping Requirements

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- (a) To document the compliance status with Condition D.2.7 - Visible Emissions Notations, the Permittee shall maintain records of visible emission notations required by that condition. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).
- (b) To document the compliance status with Condition D.2.8 - Baghouse Parametric Monitoring, the Permittee shall maintain records of the pressure drop readings required by that condition. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g. the process did not operate that day).
- (c) Section C - General Record Keeping Requirements of this permit contains the Permittee's obligation with regard to the records required by this condition.

### SECTION D.3 FACILITY OPERATION CONDITIONS - Raw Mill Facilities, Coal Handling, Milling, and Storage Facilities, Kilns and Clinker Coolers

**Facility Description [326 IAC 2-7-5(14)]** Note: Complete facility descriptions are in Section A.2.

#### Raw Mill Facilities

- (107) Two (2) pneumatic truck unloading stations to fly ash tanks (EU10 and EU11), identified as EU107 and EU108.
- (108) One (1) iron ore hopper, identified as EU109.
- (109) One (1) bottom ash hopper, identified as EU158.
- (110) Two (2) silos for flyash, identified as EU10 and EU11.
- (111) One (1) silo for iron ore, identified as EU12, equipped with one elevator, constructed in 1977.
- (112) One (1) C-15 covered conveyor system, identified as EU09.
- (113) One (1) Loesche raw mill, identified as EU14.
- (114) One (1) sidewinder (pneumatic transfer pump), identified as EU15.
- (115) One (1) raw material pile, identified as EU112.
- (116) One (1) oil-fired furnace, referred to as the Todd Furnace, used for heating the Loesche raw mill, identified as EU13.
- (117) Feed silo #1 for kiln feed, identified as EU16.
- (118) Blend silo #2 for blending kiln feed, identified as EU17.
- (119) One (1) calibration system, identified as EU18.

#### Coal Handling, Milling and Storage Facilities

- (120) Coal (crusher) mill #1, identified as EU66.
- (121) Coal (crusher) mill #2, identified as EU67.
- (122) One (1) fuel oil-fired air preheater for kiln #1 coal mill, identified as EU68.
- (123) One (1) fuel oil-fired air preheater for kiln #2 coal mill, identified as EU69.
- (124) Kiln #2 pulverized coal silo, identified as EU149.
- (125) Kiln #2 coal weigh system, identified as EU150.
- (126) Kiln #2 burner pump system, identified as EU151.

#### The Kiln #1 and Kiln #2 Facilities

- (127) One (1) feed system for kiln #1, identified as EU19.
- (128) One (1) long dry process rotary cement kiln #1, identified as EU20.
- (129) One (1) feed system for kiln #2, identified as EU26.
- (130) One (1) dry process rotary cement kiln #2 and associated preheater unit, equipped with an alkali bypass, identified as EU27.

#### The Clinker Cooler #1 Facilities

- (131) One (1) grate clinker cooler #1, identified as EU22.

#### The Clinker Cooler #2 Facilities

- (132) One (1) grate clinker cooler #2, identified as EU29.

(The information describing the processes contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

### Emission Limitations and Standards [326 IAC 2-7-5(1)]

#### D.3.1 Prevention of Significant Deterioration (PSD) Minor Limit for PM/PM<sub>10</sub> [326 IAC 2-2]

In order to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable, the following conditions shall apply:

- (a) The PM emissions from filter 255 controlling the kiln #2 burner pump system (EU151) shall not exceed 0.27 pounds per hour.

- (b) The PM<sub>10</sub> emissions from filter 255 controlling the kiln #2 burner pump system (EU151) shall not exceed 0.16 pounds per hour.
- (c) The PM emissions from baghouse 253 controlling the kiln #2 pulverized coal silo (EU149) shall not exceed 3.65 pounds per hour.
- (d) The PM<sub>10</sub> emissions from baghouse 253 controlling the kiln #2 pulverized coal silo (EU149) shall not exceed 2.19 pounds per hour.
- (e) The PM emissions from filter 254 controlling the kiln #2 coal weigh system (EU150) shall not exceed 0.68 pounds per hour.
- (f) The PM<sub>10</sub> emissions from filter 254 controlling the kiln #2 coal weigh system (EU150) shall not exceed 0.41 pounds per hour.
- (g) The PM emissions from baghouse 228 controlling the elevator for transferring material from the hopper to the flyash tanks shall not exceed 5.68 pounds per hour.
- (h) The PM<sub>10</sub> emissions from baghouse 228 controlling the elevator for transferring material from the hopper to the flyash tanks shall not exceed 3.40 pounds per hour.

Therefore, the requirements of 326 IAC 2-2 (PSD) shall not apply.

#### D.3.2 Particulate Matter (PM) [326 IAC 6.5-2-4]

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Pursuant to 326 IAC 326 IAC 6.5-2-4, the following conditions shall apply:

- (a) The combined particulate matter emissions from the kiln #2 system which includes kiln #2 equipped with an alkali bypass (EU27), the fuel oil-fired air preheater for kiln #2 (EU69), and clinker cooler #2 (EU29), shall not exceed 265.20 tons per year and 0.4 pound per ton of kiln feed (dry basis).
- (b) The combined particulate matter emissions from the kiln #1 system, which includes kiln #1 (EU20), the fuel oil-fired air preheater (EU68), and clinker cooler #1 (EU22), shall not exceed 251.20 tons per year and 0.58 pound per ton of kiln feed (dry basis).

#### D.3.3 Particulate Matter (PM) [326 IAC 6.5-1-2] [326 IAC 2-7-6(3)] [326 IAC 2-7-15]

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Pursuant to 326 IAC 6.5-1-2, particulate emissions from each of the following facilities shall not exceed 0.03 grains per dry standard cubic foot (dscf) of exhaust air.

- (a) Two (2) pneumatic truck unloading stations to fly ash tanks (EU10 and EU11), identified as EU107 and EU108.
- (b) One (1) silo for flyash, identified as EU11.
- (c) One (1) silo for iron ore, identified as EU12.
- (d) One (1) oil-fired Todd furnace used for heating the Loesche raw mill, identified as EU13.
- (e) Feed silo #1 for kiln feed, identified as EU16.
- (f) One (1) calibration system, identified as EU18.
- (g) Coal (crusher) mill #1, identified as EU66.
- (h) One (1) feed system for kiln #1, identified as EU19.
- (i) One (1) feed system for kiln #2, identified as EU26.

#### D.3.4 Particulate Emissions [326 IAC 6-3-2]

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Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), particulate emissions from the following operations shall each not exceed the pound per hour limit E when operating at the maximum process weight rate P.

- (a) One (1) silo for flyash, identified as EU10.
- (b) One (1) C-15 covered conveyor system, identified as EU09.
- (c) One (1) Loesche raw mill, identified as EU14.

- (d) One (1) sidewinder (pneumatic transfer pump), identified as EU15.
- (e) Blend silo #2 for blending kiln feed, identified as EU17.
- (f) Coal (crusher) mill #2, identified as EU67.
- (g) Kiln #2 pulverized coal silo, identified as EU149.
- (h) Kiln #2 coal weigh system, identified as EU150.
- (i) Kiln #2 burner pump system, identified as EU151.

The pounds per hour limitations (e) shall be calculated with the following equations:

Interpolation of the data for the process weight rates up to (and including) 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 4.1 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

Interpolation and extrapolation of the data for the process weight rates in excess of 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 55.0 P^{0.11} - 40 \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

When the process weight rate exceeds 200 tons per hour, the maximum allowable emission may exceed the pound per hour limit calculated using the above-referenced equation, provided the concentration of particulate matter in the discharge gases to the atmosphere is less than 0.10 pounds per on thousand (1,000) pounds of gases.

#### D.3.5 Sulfur Dioxide (SO<sub>2</sub>) [326 IAC 7-1.1-2] [326 IAC 7-2-1]

- (a) Pursuant to 326 IAC 7-1.1-2 (SO<sub>2</sub> Emissions Limitations) the SO<sub>2</sub> emissions from the combustion of coal or the simultaneous combustion of coal and oil, in kiln #1 and kiln #2 shall not exceed six (6.0) pounds per MMBtu heat input. Pursuant to 326 IAC 7-2-1, compliance shall be determined on a calendar month average.
- (b) Pursuant to 326 IAC 7-1.1-2 (SO<sub>2</sub> Emissions Limitations) the SO<sub>2</sub> emissions from the combustion of distillate oil only from each of the kilns shall not exceed five-tenths (0.5) pounds per MMBtu heat input. Pursuant to 326 IAC 7-2-1, compliance shall be determined on a calendar month average.
- (c) Pursuant to 326 IAC 7-1.1-2 (SO<sub>2</sub> Emissions Limitations) the SO<sub>2</sub> emissions from the combustion of residual oil only from each of the kilns shall not exceed one and six-tenths (1.6) pounds per MMBtu heat input. Pursuant to 326 IAC 7-2-1, compliance shall be determined on a calendar month average.
- (d) Pursuant to 326 IAC 7-1.1-2 (SO<sub>2</sub> Emissions Limitations) the SO<sub>2</sub> emissions from each of the fuel oil-fired preheaters (EU68 and EU69) and the Todd furnace (EU13) shall not exceed 0.5 pound per MMBtu heat input when combusting distillate oil. Pursuant to 326 IAC 7-2-1, compliance shall be determined on a calendar month average.

#### D.3.6 NOX Emissions [326 IAC 10-1] [326 IAC 10-3]

- (a) Pursuant to 326 IAC 10-1-4, NO<sub>x</sub> emissions from the long dry rotary cement kiln #1 (EU20) shall not exceed ten and eight-tenths (10.8) pounds per ton of clinker produced on an operating day basis and six (6.0) pounds per ton of clinker produced on a thirty (30) day rolling average.
- (b) The following requirements apply to the dry preheater rotary cement kiln #2 (EU27):
  - (1) Pursuant to 326 IAC 10-1-4, NO<sub>x</sub> emissions shall not exceed five and nine-tenths (5.9) pounds per ton of clinker produced on an operating day basis and

four and four-tenths (4.4) pounds per ton clinker produced on a thirty (30) day rolling average basis.

Compliance with the NO<sub>x</sub> limit in Condition D.3.7 shall satisfy the NO<sub>x</sub> limit of four and four-tenths (4.4) pounds per ton clinker produced on a thirty (30) day rolling average basis.

- (2) Pursuant to 326 IAC 10-3-3, after May 31, 2004 and during the ozone control period of each year, the Permittee shall comply with one (1) of the following:
  - (A) The kiln shall operate with Low-NO<sub>x</sub> burners; or
  - (B) NO<sub>x</sub> emissions shall not exceed 3.8 pounds per ton of clinker produced, averaged over the ozone control period.

#### D.3.7 Nitrogen Oxide (NO<sub>x</sub>) Emissions Limit [USEPA Consent Decree]

Pursuant to the Consent Decree in United States v. Essroc Cement Corporation No. 2:11-cv-01650-DSC, signed on February 16, 2012 and referenced in the Federal Register as No. 2:11-cv-0650-DSC, the NO<sub>x</sub> emissions from Kiln #2 and associated preheater unit, including the alkali bypass, identified as EU27 shall not exceed 2.10 pounds per ton of clinker produced, based on a 30-day rolling average.

#### D.3.8 NO<sub>x</sub> Continuous Emissions Monitoring (CEMS) Downtime

Whenever the NO<sub>x</sub> continuous emission monitoring system is malfunctioning or down for repairs or adjustments, the NO<sub>x</sub> Selective Non-Catalytic Reduction (SNCR) shall be subject to the following limits:

- (a) Ammonia injection rate into the Kiln #2 preheater tower shall not exceed 4 gallon per minute (gpm).
- (b) After completion of the compliance stack testing, ammonia injection into the Kiln #2 preheater tower shall not exceed the rate established during the valid compliance stack test in D.3.10(b) that corresponds with zero ammonia slip.

#### D.3.9 Preventive Maintenance Plan [326 IAC 2-7-5(12)] [326 IAC 10-3]

A Preventive Maintenance Plan is required for all of the control devices listed in this section, and for the kilns and clinker coolers. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

### **Compliance Determination Requirements**

#### D.3.10 Testing Requirements [326 IAC 20-27-1][326 IAC 2-7-6(1)(6)] [326 IAC 2-1.1-11]

- (a) Within 2.5 years after the most recent valid compliance demonstration, the Permittee shall test kiln #1 (EU20), kiln #2 equipped with alkali bypass (EU27) and associated preheater, clinker cooler #1 (EU22), clinker cooler #2 (EU29), kiln feed system #1 (EU19), and kiln feed system #2 (EU26) for PM emissions in order to demonstrate compliance with Condition D.3.2 - Particulate Matter (PM) (326 IAC 6.5-2-4) and Condition D.3.3 - Particulate Matter (PM) (326 IAC 6.5-1-2), utilizing methods approved by the commissioner. Testing shall be conducted at least once every 2.5 years from the date of the most recent valid compliance demonstration and shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition. All associated facilities exhausting to a single stack must all be operating when determining compliance with the limit.
- (b) Within sixty (60) days after achieving maximum capacity but no later than one hundred and eighty (180) days after startup of the NO<sub>x</sub> SNCR, the Permittee shall perform ammonia stack testing to establish the ammonia injection rate into the Kiln #2 preheater

tower, utilizing methods approved by the commissioner. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition. No repeat testing is required for this parameter.

#### D.3.11 NOx Selective Non-Catalytic Reduction (SNCR) [USEPA Consent Decree]

Pursuant to Consent Decree in United States v. Essroc Cement Corporation No. 2:11-cv-01650-DSC, signed on February 16, 2012 and referenced in the Federal Register as No. 2:11-cv-0650-DSC, the Selective Non-Catalytic Reduction (SNCR) systems shall be operated at all times of Kiln operation, consistent with the technological limitations, manufacturer's specifications and good engineering and maintenance practices for such control technology and the Kiln.

#### D.3.12 Particulate Matter (PM) Control

In order to comply with Conditions D.3.1 - Prevention of Significant Deterioration (PSD) Minor Limit, D.3.2 - Particulate Matter (PM), and D.3.3 - Particulate Matter (PM), the following conditions shall apply:

- (a) The baghouse 209 for PM control shall be in operation at all times and control emissions from the kiln #1 feed system when the kiln #1 feed system is in operation.
- (b) The baghouse 221 for PM control shall be in operation at all times and control emissions from the kiln #1 when the kiln #1 is in operation.
- (c) The baghouse 231 for PM control shall be in operation at all times and control emissions from the kiln #2 feed system when the kiln #2 feed system is in operation.
- (d) Baghouse 15 and baghouse 16, for PM control, shall be in operation at all times and control emissions from the kiln #2 and raw mill when the kiln #2 or the raw mill is in operation.
- (e) The baghouse 222 for PM control shall be in operation at all times and control emissions from the clinker cooler #1 when the clinker cooler #1 is in operation.
- (f) The baghouse 17 for PM control shall be in operation at all times and control emissions from the clinker cooler #2 when the clinker cooler #2 is in operation.
- (g) Each baghouse or filter controlling any of the coal handling, milling, and storage facilities shall be in operation at all times when the associated facility is in operation.
- (h) In the event that bag failure is observed in a multi-compartment bagfilter, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

#### D.3.13 Sulfur Dioxide Emissions and Sulfur Content [326 IAC 2-7-5(A)] [326 IAC 2-7-6]

Pursuant to 326 IAC 7-2, compliance with the limit in Condition D.3.5(a) - Sulfur Dioxide (SO<sub>2</sub>) shall be determined utilizing one of the following methods:

- (a) Coal sampling and analysis shall be performed using one of the following procedures:
  - (1) Minimum Coal Sampling Requirements and Analysis Methods [326 IAC 3-7-2(b)(3)]:
    - (A) The coal sample acquisition point shall be at a location where representative samples of the total coal flow to be combusted by the facility or facilities may be obtained. A single as-bunkered or as-burned

sampling station may be used to represent the coal to be combusted by multiple facilities using the same stockpile feed system.

- (B) Coal shall be sampled at least three (3) times per day and at least one (1) time per eight (8) hour period unless no coal is bunkered during the preceding eight (8) hour period.
  - (C) Minimum sample size shall be five hundred (500) grams.
  - (D) Samples shall be composited and analyzed at the end of each calendar month.
  - (E) Preparation of the coal sample, heat content analysis, and sulfur content analysis shall be determined pursuant to 326 IAC 3-7-2(c), (d), and (e).
- (2) Sample and analyze the coal pursuant to 326 IAC 3-7-2(a). Preparation of the coal sample heat content analysis, and sulfur content analysis shall be determined pursuant to 326 IAC 3-7-2(c), (d), and (e).
  - (3) Pursuant to 326 IAC 3-7-2(f), in lieu of the requirements of 326 IAC 3-7-2(d) the source may elect to determine the heat content of coal samples in accordance with the procedures specified in ASTM D5865.
  - (4) Sample and analyze the coal pursuant to 326 IAC 3-7-3.
- (b) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from the kilns, in accordance with 326 IAC 3-6, utilizing the procedures in 40 CFR 60, Appendix A, Method 6, 6A, 6C, and 8. [326 IAC 7-2-1(d)]
  - (c) Upon written notification to IDEM by a facility owner or operator, continuous emission monitoring data collected and reported pursuant to 326 IAC 3-5-1 may be used as the means for determining compliance with the emission limitations in 326 IAC 7-2. Upon such notification, the other requirements of 326 IAC 7-2 shall not apply. [326 IAC 7-2-1(g)]

A determination of noncompliance pursuant to any of the methods specified in (a) or (b) above shall not be refuted by evidence of compliance pursuant to the other method.

#### D.3.14 Sulfur Dioxide Emissions and Sulfur Content [326 IAC 2-7-5(A)] [326 IAC 2-7-6]

Pursuant to 326 IAC 7-2, compliance with the limit in Condition D.3.5 - Sulfur Dioxide (SO<sub>2</sub>) shall be determined utilizing one of the following methods:

- (a) Pursuant to 326 IAC 3-7-4, the Permittee shall determine that the sulfur dioxide emissions by:
  - (1) Providing vendor analysis of fuel delivered, if accompanied by a vendor certification, or;
  - (2) Analyzing the oil sample to determine the sulfur content of the oil via the procedures in 40 CFR 60, Appendix A, Method 19.
    - (A) Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and
    - (B) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling.

- (b) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from each of the kilns and heaters, using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.

A determination of noncompliance pursuant to any of the methods specified in (a) or (b) above shall not be refuted by evidence of compliance pursuant to the other method.

**D.3.15 Continuous Emissions Monitoring [326 IAC 3-5] [326 IAC 2-7-6(1),(6)] [326 IAC 10-1] [326 IAC 10-3]**

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- (a) Pursuant to 326 IAC 3-5 (Continuous Monitoring of Emissions) continuous opacity monitoring systems (COMS) for kiln #1 (EU20), kiln #2 (EU27), clinker cooler #1 (EU22), and clinker cooler #2 (EU29) shall be installed, calibrated, maintained, and operated for measuring opacity, which meet all applicable performance specifications of 326 IAC 3-5-2.
- (b) Pursuant to the Consent Decree in United States v. Essroc Cement Corporation No. 2:11-cv-01650-DSC, signed on February 16, 2012 and referenced in the Federal Register as No. 2:11-cv-0650-DSC, NOx Continuous Emissions Monitoring System (CEMS) shall be installed, calibrated, maintained, and operated to demonstrate compliance with the NOx emission limit in Condition D.3.7 for Kiln #2 and associated preheater unit, including the alkali bypass, identified as EU027, in accordance with 326 IAC 3-5.
- (c) Pursuant to 326 IAC 10-1-6 (Emissions Monitoring) and 326 IAC 10-3 (Monitoring and Testing Requirements), NOx CEMS shall be installed, calibrated, maintained, and operated to demonstrate compliance with the NOx emission limits in Condition D.3.6 for kiln #1 (EU20) and kiln #2 (EU27), in accordance with 326 IAC 3-5.
- (d) All continuous emission monitoring systems (CEMS) are subject to monitor system certification requirements pursuant to 326 IAC 3-5-3.
- (e) Nothing in this permit shall excuse the Permittee from complying with the requirements to operate a continuous emission monitoring system pursuant to 326 IAC 3-5, 326 IAC 10-1, 326 IAC 10-3, and 40 CFR 63, Subpart LLL.

**Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]**

**D.3.16 Visible Emissions Notations [40 CFR 64]**

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The emission units and associated baghouses for which continuous opacity monitors are not used shall comply with the following requirements:

- (a) Visible emission notations of the baghouse stack exhausts shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, at least eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

- (e) If abnormal emissions are observed, the Permittee shall take reasonable response. Section C – Response to Excursions and Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

Compliance with these monitoring requirements satisfies, in part, CAM for the following units: pneumatic truck unloading stations to fly ash tanks (EU107 and EU108), silos for flyash (EU10 and EU11), silo for iron ore (EU12), C-15 covered conveyor system (EU09), Loesche raw mill (EU14), sidewinder (pneumatic transfer pump) (EU15), feed silo #1 for kiln feed (EU16), blend silo #2 (EU17), calibration system (EU18), coal (crusher) mill #1 (U66), coal (crusher) mill #2 (EU67), fuel oil-fired air preheater for kiln #1 coal mill (EU68), fuel oil-fired air preheater for kiln #2 coal mill (EU69), kiln #2 pulverized coal silo (EU149), kiln #2 coal weigh system (EU150), kiln #2 burner pump system (EU151), feed system for kiln #1 (EU19), rotary cement kiln #1 (EU20), feed system for kiln #2 (EU26), kiln #2 (EU27), clinker cooler #1 (EU22), and clinker cooler #2 (EU29).

#### D.3.17 Baghouse Parametric Monitoring

The emission units and associated baghouses for which continuous opacity monitors are not used shall comply with the following requirements:

- (a) The Permittee shall record the pressure drop across each baghouse, used in conjunction with the facilities listed in this section, at least once per day when the associated facility is in operation. When for any one reading, the pressure drop across a baghouse is outside the normal range, the Permittee shall take reasonable response steps. The normal range for these units is 1.0 to 8.0 inches of water unless a different upper-bound or lower-bound value for this range is determined during the latest stack test. Section C – Response to Excursions and Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the normal range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.
- (b) The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated or replaced at least once every six (6) months or other time period specified by the manufacturer. The Permittee shall maintain records of the manufacturer specifications, if used.

Compliance with these monitoring requirements satisfies, in part, CAM for the following units: pneumatic truck unloading stations to fly ash tanks (EU107 and EU108), silos for flyash (EU10 and EU11), silo for iron ore (EU12), C-15 covered conveyor system (EU09), Loesche raw mill (EU14), sidewinder (pneumatic transfer pump) (EU15), feed silo #1 for kiln feed (EU16), blend silo #2 (EU17), calibration system (EU18), coal (crusher) mill #1 (U66), coal (crusher) mill #2 (EU67), fuel oil-fired air preheater for kiln #1 coal mill (EU68), fuel oil-fired air preheater for kiln #2 coal mill (EU69), kiln #2 pulverized coal silo (EU149), kiln #2 coal weigh system (EU150), kiln #2 burner pump system (EU151), feed system for kiln #1 (EU19), rotary cement kiln #1 (EU20), feed system for kiln #2 (EU26), kiln #2 (EU27), clinker cooler #1 (EU22), and clinker cooler #2 (EU29).

#### D.3.18 Broken or Failed Bag Detection

- (a) For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the line. Operations may continue only if the event qualifies

as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

D.3.19 NO<sub>x</sub> Continuous Emissions Monitoring (CEMS) Downtime [326 IAC 2-7-6] [326 IAC 2-7-5(3)]

Whenever the NO<sub>x</sub> continuous emission monitoring system is malfunctioning or down for repairs or adjustments, the following method shall be used to provide information related to Kiln #2 NO<sub>x</sub> emissions:

Monitoring of the SNCR operating parameters for the ammonia reductant shall be implemented as follows:

- (a) The Permittee shall record the ammonia injection rate into the Kiln #2 Preheater tower continuously until the CEMS is brought online and functioning properly. When for any 1- hour readings, the ammonia injection rate exceeds the injection rate established during the compliance stack testing, the Permittee shall take reasonable response steps. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.
- (b) The instrument used for determining the ammonia flow rate shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated or replaced at least once every six (6) months.

D.3.20 Maintenance of Continuous Opacity Monitoring Equipment [326 IAC 2-7-5(3)(A)(iii)]

- (a) The Permittee shall install, calibrate, maintain, and operate all necessary continuous opacity monitoring systems (COMS) and related equipment.
- (b) All COMS shall meet the performance specifications of 40 CFR 60, Appendix B, Performance Specification No. 1, and are subject to monitor system certification requirements pursuant to 326 IAC 3-5.
- (c) In the event that a breakdown of a COMS occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem.
- (d) Whenever a COMS is malfunctioning or is down for maintenance or repairs for a period of twenty-four (24) hours or more and a backup COMS is not online within twenty-four (24) hours of shutdown or malfunction of the primary COMS, the Permittee shall provide a certified opacity reader, who may be an employee of the Permittee or an independent contractor, to self-monitor the emissions from the emission unit stack.
  - (1) Visible emission readings shall be performed in accordance with 40 CFR 60, Appendix A, Method 9, for a minimum of five (5) consecutive six (6) minute averaging periods beginning not more than twenty-four (24) hours after the start of the malfunction or down time.
  - (2) Method 9 opacity readings shall be repeated for a minimum of five (5) consecutive six (6) minute averaging periods at least twice per day during daylight operations, with at least four (4) hours between each set of readings, until a COMS is online.
  - (3) Method 9 readings may be discontinued once a COMS is online.
  - (4) Any opacity exceedances determined by Method 9 readings shall be reported with the Quarterly Opacity Exceedances Reports.
- (e) Nothing in this permit shall excuse the Permittee from complying with the requirements to operate a continuous opacity monitoring system pursuant to 326 IAC 3-5, (and

40 CFR 60 and/or 40 CFR 63).

## **Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]**

### **D.3.21 Record Keeping Requirements**

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- (a) To document the compliance status with Condition D.3.5 - Sulfur Dioxide (SO<sub>2</sub>), D.3.13 - Sulfur Dioxide Emissions and Sulfur Content and D.3.14 - Sulfur Dioxide Emissions and Sulfur Content, the Permittee shall maintain records in accordance with (1) through (4) below. Records maintained for (1) through (4) shall be complete and sufficient to determine compliance with the SO<sub>2</sub> emission limits established in Condition D.3.5 - Sulfur Dioxide (SO<sub>2</sub>).
- (1) Calendar dates covered in the compliance determination period;
  - (2) Actual coal and oil usages since last compliance determination period;
  - (3) Sulfur content and heat content of both coal and oil used;
  - (4) Sulfur dioxide emission rates.
- (b) Pursuant to 326 IAC 3-7-5(a), the Permittee shall develop a standard operating procedure (SOP) to be followed for sampling, handling, analysis, quality control, quality assurance, and data reporting of the information collected pursuant to 326 IAC 3-7-2 through 326 IAC 3-7-4. In addition, any revision to the SOP shall be submitted to IDEM, OAQ.
- (c) To document the compliance status with Section C - Opacity and Condition D.3.15 - Continuous Emissions Monitoring, the Permittee shall maintain records of (1) through (4) below. Records shall be complete and sufficient to determine compliance with the limits established in this section.
- (1) Data and results from the most recent stack tests.
  - (2) All continuous emissions opacity monitoring data pursuant to 326 IAC 3-5.
  - (3) The results of all Method 9 opacity readings for the kilns and clinker coolers visible emission readings taken during any periods of COMS downtime.
  - (4) A log of plant operations, including emission unit or monitoring system downtime with the following information:
    - (A) Date of emissions unit or monitoring system downtime.
    - (B) Time of commencement and completion of each downtime.
    - (C) Reason for each downtime.
    - (D) Nature of system repairs and adjustments
- (d) To document compliance with conditions D.3.19, the Permittee shall maintain records of the ammonia injection rate.
- (e) To document the compliance status with Condition D.3.16 - Visible Emissions, the Permittee shall maintain daily records of the visible emission notations of each baghouse stack exhaust. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of a visible emission notation (e.g. the process did not operate that day).

- (f) To document the compliance status with Condition D.3.17 - Baghouse Parametric Monitoring, the Permittee shall maintain daily records of the pressure drop across each baghouse. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g. the process did not operate that day).
- (g) Section C - General Record Keeping Requirements of this permit contains the Permittee's obligation with regard to the records required by this condition.

#### D.3.22 Reporting Requirements

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- (a) A quarterly summary of the information to document the compliance status with the SO<sub>2</sub> limits specified in Condition D.3.5 - Sulfur Dioxide (SO<sub>2</sub>) shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition.
- (b) Pursuant to 326 IAC 10-1 and 326 IAC 10-3, CEM performance evaluation reports shall be submitted each calendar quarter.
- (c) Pursuant to 326 IAC 10-1, the source shall notify the OAQ at least thirty (30) days prior to the addition or modification of a facility that may result in a potential increase in NO<sub>x</sub> emissions.
- (d) Pursuant to 326 IAC 10-1, the source may comply with the reporting requirements of 326 IAC 10-1 by submitting to the OAQ a substitute report. A substitute report is a report that satisfies an applicable state or federal reporting requirement and contains the information required to be submitted by this rule.
- (e) A quarterly summary of excess NO<sub>x</sub> emissions as defined in 326 IAC 3-5-7 and 40 CFR Part 60.7 from the continuous emissions monitoring system, shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition.
- (f) A quarterly summary of excess opacity emissions, as defined in 326 IAC 3-5-7 and 40 CFR Part 60.7, from the continuous monitoring system, shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition.
- (g) A monthly summary of the thirty (30) day rolling average of the CEMS NO<sub>x</sub> emissions reading for Kiln #2 and associated preheater unit, including the alkali bypass, identified as EU027 shall be submitted not later than thirty (30) days after the end of each half calendar year being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition.

The reports submitted by the Permittee do require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

## SECTION D.4 FACILITY OPERATION CONDITIONS - Degreasing Operations

### Facility Description [326 IAC 2-7-5(14)]: Insignificant Activity

#### Degreasing operations

- (1) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6. [326 IAC 8-3-2] [326 IAC 8-3-5] [326 IAC 8-3-8]

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

### Emission Limitations and Standards [326 IAC 2-7-5(1)]

#### D.4.1 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations) for cold cleaning operations, performing organic solvent degreasing, constructed after January 1, 1980, the Permittee shall:

- (a) Equip the cleaner with a cover;
- (b) Equip the cleaner with a facility for draining cleaned parts;
- (c) Close the degreaser cover whenever parts are not being handled in the cleaner;
- (d) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
- (e) Provide a permanent, conspicuous label summarizing the operating requirements;
- (f) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

#### D.4.2 Volatile Organic Compounds (VOC) [326 IAC 8-3-5]

(a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), for a cold cleaner organic solvent degreaser facility, performing organic solvent degreasing, construction of which commenced after July 1, 1990, the Permittee shall ensure that the following control equipment requirements are met:

- (1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:
  - (A) The solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F));
  - (B) The solvent is agitated; or
  - (C) The solvent is heated.
- (2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), then the drainage facility must be internal such that articles are enclosed under

the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.

- (3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).
  - (4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.
  - (5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9°C) (one hundred twenty degrees Fahrenheit (120°F)):
    - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
    - (B) A water cover when solvent is used is insoluble in, and heavier than, water.
    - (C) Other systems of demonstrated equivalent control such as a refrigerated chiller or carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.
- (b) Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), for a cold cleaning facility, performing organic solvent degreasing, construction of which commenced after July 1, 1990, the Permittee shall ensure that the following operating requirements are met:
- (1) Close the cover whenever articles are not being handled in the degreaser.
  - (2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.
  - (3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

#### D.4.3 Material Requirements for Cold Cleaning Degreasers [326 IAC 8-3-8]

Pursuant to 326 IAC 8-3-8 (Material Requirements for Cold Cleaning Degreasers), the following conditions shall apply:

- (a) The source shall not operate a cold cleaning degreaser, performing organic solvent degreasing, with a solvent vapor pressure that exceeds one (1) millimeter of mercury (nineteen-thousandths (0.019) pound per square inch) measured at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).
- (b) The source shall maintain the following records for each purchase:
  - (1) the name and address of the solvent supplier;
  - (2) the date of purchase;
  - (3) the type of solvent;
  - (4) the volume of each unit of solvent;
  - (5) the total volume of the solvent; and
  - (6) the true vapor pressure of the solvent measured in millimeters of mercury at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).

## SECTION D.5 FACILITY OPERATION CONDITIONS - Insignificant Activities

Facility Description [326 IAC 2-7-5(14)]	Insignificant Activities
(2) Underground conveyors. [326 IAC 6.5-1-2]	
(3) Coal bunker and coal scale exhausts and associated dust collector vents. [326 IAC 6.5-1-2]	
(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)	

### Emission Limitations and Standards [326 IAC 2-7-5(1)]

#### D.5.1 Particulate Matter (PM) [326 IAC 6.5-1-2]

Pursuant to 326 IAC 6.5-1-2, the allowable PM emissions from each of the underground conveyors, the coal bunker, and coal scale shall not exceed 0.03 grains per dry standard cubic foot of exhaust air.

## SECTION E.1 PLANTWIDE APPLICABILITY LIMITATION REQUIREMENTS

### Facility Description [326 IAC 2-7-5(14)]

The entire plant site is subject to the Plant wide Applicability Limitation [PAL] requirements described in this E section.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

### Source Wide Emission Limits [326 IAC 2-2.4-7(1)] [326 IAC 2-3.4-7(1)]

#### E.1.1 Emission Limits [326 IAC 2-2.4-7(1)][326 IAC 2-3.4-7(1)]

Oxides of Nitrogen (NO<sub>x</sub>) emissions from the entire source shall not exceed 2,566 tons per rolling twelve (12) month period with compliance determined at the end of each month. This provision does not supersede any other NO<sub>x</sub> emission limits contained in this permit.

### General PAL Requirements [326 IAC 2-2.4-1] [326 IAC 2-3.4-1]

#### E.1.2 Major New Source Review Applicability [326 IAC 2-2.4-1(c)] [326 IAC 2-3.4-1(c)]

Any physical change or change in the method of operation of this source is not a major modification for NO<sub>x</sub>, and not subject to the review requirements of 326 IAC 2-2 and 326 IAC 2-3, provided the actual emissions of NO<sub>x</sub> from the entire source do not exceed the emission limit in Condition E.1.1 - Emission Limits of this permit.

#### E.1.3 General PAL Requirements [326 IAC 2-2.4-7 through 326 IAC 2-2.4-11][326 IAC 2-2.4-15][326 IAC 2-3.4-7 through 326 IAC 2-3.4-11][326 IAC 2-3.4-15]

- (a) The requirements of this E Section become effective on July 1, 2008 and expire ten years after that date.
- (b) If the Permittee applies to renew this PAL at least six months prior to expiration of the PAL, but no earlier than eighteen months prior to the expiration of the PAL, then notwithstanding the expiration date in subsection E.1.3(a), the PAL shall continue to be effective until the revised permit with the renewed PAL is issued. The application must contain the elements described in 326 IAC 2-2.4-3, 326 IAC 2-2.4-10, 326 IAC 2-3.4-3 and 326 IAC 2-3.4-10.
- (c) Once this PAL expires, if not otherwise renewed, then the requirements of 326 IAC 2-2.4-9 and 326 IAC 2-3.4-9 are applicable.
- (d) The requirements for renewing this PAL are described in 326 IAC 2-2.4-10 and 326 IAC 2-3.4-10.
- (e) The requirements for increasing the emissions limits described in Condition E.1.1 - Emission Limits are described in 326 IAC 2-2.4-11 and 326 IAC 2-3.4-11.
- (f) The requirements applicable to terminating or revoking this PAL are described in 326 IAC 2-2.4-15 and 326 IAC 2-3.4-15.

### Monitoring Requirements [326 IAC 2-2.4-7(6) & (7)] [326 IAC 2-2.4-12] [326 IAC 2-3.4-7(6) & (7)] [326 IAC 2-3.4-12]

#### E.1.4 NO<sub>x</sub> Emission Limit Determination [326 IAC 2-2.4-7(6) and (7)] [326 IAC 2-2.4-12] [326 IAC 2-3.4-7(6) and (7)] [326 IAC 2-3.4-12]

The Permittee shall install, calibrate, maintain and operate a NO<sub>x</sub> continuous emission monitoring system (CEMS) on stacks S-14, S-15 and S-16. The CEMS shall be designed to determine actual emissions of NO<sub>x</sub> as described below:

- (a) The Permittee shall comply with the requirements of Conditions D.3.12(c) through (d) - Continuous Emissions Monitoring.
- (b) Pursuant to 326 IAC 2-2.4-12(d) and 326 IAC 2-3.4-12(d), an owner or operator using CEMS to monitor PAL pollutant emissions shall meet the following requirements:
  - (1) CEMS must comply with applicable performance specifications found in 40 CFR Part 60, Appendix B; and
  - (2) CEMS must sample, analyze, and record data at least every fifteen (15) minutes while the emissions unit is operating.

### **Record Keeping and Reporting [326 IAC 2-7-5(3)] [326 IAC 2-7-19]**

#### E.1.5 Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-2.4-13] [326 IAC 2-3.4-13]

- (a) The Permittee shall retain a copy of all records necessary to determine compliance with the requirements of this E Section, including a determination of each emissions unit's twelve (12) month rolling total emissions, for five years from the date of the record. Those records include, but are not limited to, recorded data generated by the CEMS required by Condition E.1.4 - NO<sub>x</sub> Emission Limit Determination.
- (b) The Permittee shall retain a copy of the PAL permit application, any applications for revisions to the PAL, each annual compliance certification as required by Condition B.9 - Annual Compliance Certification of this permit, and data relied on in the certification for the duration of the PAL plus five years.

#### E.1.6 Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-2.4-14] [326 IAC 2-3.4-14]

- (a) The Permittee shall submit a semi-annual report, containing the information described below, not later than thirty (30) days after the end of the semi-annual calendar period being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. This report requires a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34). The report shall include the following information:
  - (1) The identification of the owner and operator of the source and the permit number.
  - (2) Total emissions of NO<sub>x</sub>, in tons per rolling 12 month period for each month in the reporting period, as determined by Condition E.1.4 - NO<sub>x</sub> Emission Limit Determination.
  - (3) All data relied upon, including but not limited to, any quality assurance or quality control data, in determining emissions.
  - (4) A list of any emissions units modified or added to the major stationary source during the reporting period.
  - (5) If not previously reported pursuant to another condition in this permit, the number, duration, and cause of any deviations or monitoring malfunctions, and any corrective action taken.
- (b) The procedures for reporting deviations from the requirements of this Section E, and the procedures for reporting emissions in excess of the limit in Condition E.1.1 - Emission Limits are described in Condition B.15 (Deviation from Permit Requirements and Conditions). A report that describes emissions exceeding the PAL limit shall include the quantity of emissions emitted by the source. This term satisfies the requirements of 326 IAC 2-2.4-14(c).

## SECTION F.1

## FACILITY OPERATION CONDITIONS

### Facility Description [326 IAC 2-7-5(14)] Insignificant Activities

(121) Coal (crusher) mill #2, identified as EU67 servicing kiln #2, constructed in 1977.

Note: for the purposes of Subpart Y applicability, this unit meets the definition of a thermal dryer.

(123) One (1) fuel oil-fired air preheater for kiln #2 coal mill, identified as EU69, constructed in 1977.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

### New Source Performance Standards (NSPS) Requirements [326 IAC 2-7-5(1)]

#### F.1.1 General Provisions Relating to New Source Performance Standards [40 CFR Part 60, Subpart A] [326 IAC 12-1]

(a) Pursuant to 40 CFR 60.1, the Permittee shall comply with the provisions of 40 CFR Part 60 Subpart A - General Provisions, which are incorporated by reference as 326 IAC 12-1, except as otherwise specified in 40 CFR Part 60, Subpart Y.

(b) Pursuant to 40 CFR 60.19, the Permittee shall submit all required notifications and reports to:

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

#### F.1.2 Standards of Performance for Coal Preparation Plants [40 CFR Part 60, Subpart Y] [326 IAC 12]

Pursuant to 40 CFR Part 60, Subpart Y, the Permittee shall comply with the provisions of the Standard of Performance for Coal Preparation Plants (included as Attachment A of this permit), which are incorporated by reference as 326 IAC 12, as specified as follows:

- (1) 40 CFR 60.250 (a) and (b)
- (2) 40 CFR 60.251
- (3) 40 CFR 60.252 (a), (a)(1), and (a)(2)
- (4) 40 CFR 60.255 (a)
- (5) 40 CFR 60.256 (a), (a)(1), (a)(1)(i), (a)(2)
- (6) 40 CFR 60.257 (a), (b)(1), (b)(2), (b)(3), (b)(4), and (b)(5)
- (7) 40 CFR 60.258 (b)(2), (b)(3), (c), and (d)

## SECTION F.2

## FACILITY OPERATION CONDITIONS

### Facility Description [326 IAC 2-7-5(14)]

#### Miscellaneous Facilities

- (43) One (1) warehouse conveyor system for conveying bagged cement, identified as EU74.

#### Clay Processing Operations

- (44) Clay hopper, identified as EU105.  
(45) One (1) covered conveyor system for transferring material from the clay hopper to the clay crusher, identified as EU106.  
(46) One (1) clay crusher, identified as EU08. (Until September 9, 2013, this is an affected source under 40 CFR 63, Subpart LLL.)

#### Finish Operations Crane Storage Facilities

- (48) One (1) truck unloading station to Emergency BP stone storage pile or Crane storage pile, identified as EU127.  
(49) One (1) truck unloading station to gypsum storage piles, identified as EU129.  
(50) Crane storage building, including gypsum storage bin, stone storage bin, two (2) clinker storage bins, and stone, clinker, and gypsum storage piles, identified as EU131.

#### Fossil Fuel Storage and Handling Facilities

- (52) Coal trucks unloading to the coal storage piles and reserve coal storage piles, identified as EU136.  
(55) One (1) coal draw-up covered conveying system for transferring material from the coal/alternate energy storage pile to the coal transfer tower, identified as EU63.  
(56) Coal transfer tower, identified as EU64.  
(57) One (1) coal bin, identified as EU65.

#### Kiln #1 Clinker Handling Facilities

- (58) One (1) #1 clinker drag conveyor for transferring clinker from clinker cooler #1 to the apron conveyor, identified as EU23.  
(59) Apron conveyor for transferring clinker from the #1 clinker drag conveyor to either the clinker can #1 or the long belt, identified as EU24.  
(60) Clinker can #1, which is a vertical bin with a lid used for storing off-spec clinker, identified as EU114.

#### Kiln #2 Clinker Handling Facilities

- (61) One (1) Kreyling hopper to feed weathered clinker to the clinker cooler #2, identified as EU157.  
(62) One (1) #2 clinker drag conveyor for transferring clinker from clinker cooler #2 to the aumond conveyor, identified as EU30.  
(63) One (1) aumond conveyor used for transferring clinker and clinker dust from the #2 clinker drag conveyor, #2 cooler, and baghouse 17 to the clinker can #2 or the cross belt, identified as EU31.  
(64) One (1) cross belt for transferring clinker to the long belt, identified as EU119.  
(65) Clinker can #2, which is a vertical bin with a lid used for storing off-spec clinker, identified as EU120.

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**Clinker Handling to Crane Storage Facilities**

- (66) One (1) long belt for transferring clinker from the apron conveyor and the cross belt to the North clinker transfer tower, identified as EU25.
- (67) One (1) North clinker transfer tower for transferring clinker from the long belt to the covered incline belt, identified as EU32.
- (68) One (1) covered incline belt used for transferring clinker from the North clinker transfer tower to the Shuttle Belt then to the North clinker storage building, identified as EU33.
- (69) One (1) clinker storage pile, identified as EU121. (On and after September 9, 2013, this is affected source under 40 CFR 63, Subpart LLL.)
- (70) North clinker storage pile, identified as EU122. (On and after September 9, 2013, this is affected source under 40 CFR 63, Subpart LLL.)
- (71) North clinker storage building, identified as EU123.
- (72) One (1) North reclaim clinker covered conveyor system used to transfer clinker from the North clinker storage building and baghouse dust from baghouse 35391 to either, 1) the South reclaim clinker covered conveyor system (EU124) or, 2) the 2D finish mill clinker bin transfer (EU44), identified as EU34.
- (73) One (1) South reclaim clinker covered conveyor used to transfer clinker from the North reclaim clinker covered conveyor system to the crane storage building, identified as EU124.
- (74) Truck loading station, used for loading material from the North clinker storage pile and clinker storage pile, identified as EU125.
- (75) Truck unloading station, used for loading material to the crane storage building, identified as EU126.

**2ABC Finish Mill Facilities**

- (76) One (1) Base tank (CKD), identified as EU146.
- (77) One (1) gypsum/stone/clinker transfer circuit ABC mills, including material transfers and scales, identified as EU35.
- (78) Two (2) clinker elevators, identified as EU37.
- (79) One (1) 2BC finish mill feed belt, identified as EU132.
- (80) 2A hopper / preliminary ball mill used to grind clinker and gypsum, identified as EU38.
- (81) One (1) finish mill circuit 2A, which includes three (3) elevators, finish mill, separator, and air transport system, collectively identified as EU39.
- (82) One (1) finish mill circuit 2B, which includes the feed hopper, feed belt, finish mill, and elevator, collectively identified as EU40.
- (83) One (1) finish mill circuit 2C, which includes the feed hopper, feed belt, finish mill, and elevator, collectively identified as EU42.
- (84) One (1) separator circuit, which includes an air transport system and pump, used in conjunction with the finish mill circuit 2C, identified as EU43.
- (85) One (1) separator, which includes an air transport system and pump, used in conjunction with the finish mill circuit 2B, identified as EU41.
- (86) One (1) BP tank for storing finished product (cement), identified as EU48.
- (87) One (1) pump used to transfer finished product (cement) from the BP tank to silos, identified as EU49.

**2D Finish Mill Facilities**

- (88) One (1) gypsum elevator used to transfer material from the gypsum storage piles to the 2D finish mill circuit, identified as EU135.
- (89) One (1) 2D finish mill clinker bin transfer, which includes the elevator, conveyor belts, and air transport system, identified as EU44.

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**2D Finish Mill Facilities (continued)**

- (90) One (1) 2D finish mill clinker / gypsum feed circuit which includes scales and feed belts, identified as EU45.
- (91) One (1) 2D finish mill roll press circuit, which includes a roller press (crusher) with surge bin, identified as EU46.
- (92) One (1) 2D finish mill circuit, which includes conveyor transfer, elevator, finish mill, elevator, classifier, and a cement cooler, identified as EU47.

**Finish Product 501-Silos Storage and Packing Facilities**

- (93) 501-Silos 25-44, identified as EU54.
- (94) One (1) BIC mixer for mixing lime and pigment with the cement, identified as EU55.
- (95) One (1) BIC packer for loading cement into bags, identified as EU56.

**Finish Product 506-Silos Storage, Packing, and Bulk Loading Facilities**

- (96) 506-Silos 56-73, identified as EU53.
- (97) Two (2) bulk loading stations for railroad cars and trucks, identified as EU57 and EU58.
- (98) One (1) north packer #1 for loading cement into bags, identified as EU59.
- (99) One (1) center packer #2 for loading cement into bags, identified as EU60.
- (100) One (1) south packer #3 for loading cement into bags, identified as EU61.
- (101) One (1) bag compression station, identified as EU62.

**Finish Product 504-Silos Storage and Bulk Loading Facilities**

- (102) 504-Silos 45-48, and 50-55, identified as EU51.
- (103) One (1) bulk loading station for trucks and railroad cars, identified as EU52.

**Finish Product 502-Silos Storage and Bulk Loading Facilities**

- (106) 502-Silos 1, 2, and 7-11, identified as EU50.

**Raw Mill Facilities**

- (107) Two (2) pneumatic truck unloading stations, identified as EU107 and EU108.
- (108) One (1) iron ore hopper, identified as EU109.
- (109) One (1) bottom ash hopper, identified as EU158.
- (110) Two (2) silos for flyash, identified as EU10 and EU11.
- (111) One (1) silo for iron ore, identified as EU12.
- (112) One (1) C-15 covered conveyor system for transferring material from the clay breaker, bottom ash hopper, iron ore tank, fly ash tanks, raw material pile, and the main limestone storage pile to the Loesche raw mill, identified as EU09.
- (113) One (1) Loesche raw mill, identified as EU14.
- (114) One (1) sidewinder (pneumatic transfer pump) used for pumping the kiln feed to the feed and blend silos, identified as EU15.
- (116) One (1) oil-fired furnace, referred to as the Todd Furnace, used for Loesche mill heating, identified as EU13.
- (117) Feed silo #1 for kiln feed, identified as EU16.
- (118) Blend silo #2 for blending kiln feed, identified as EU17.
- (119) One (1) calibration system, identified as EU18.

**Coal Handling, Milling and Storage Facilities**

- (122) One (1) fuel oil-fired air preheater for kiln #1 coal mill, identified as EU68.
- (123) One (1) fuel oil-fired air preheater for kiln #2 coal mill, identified as EU69.
- (124) Kiln #2 pulverized coal silo, identified as EU149.

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**Coal Handling, Milling and Storage Facilities (continued)**

- (125) Kiln #2 coal weigh system, identified as EU150.
- (126) Kiln #2 burner pump system, identified as EU151.

**The Kiln #1 and Kiln #2 Facilities**

- (127) One (1) feed system for kiln #1, identified as EU19.
- (128) One (1) long dry process rotary cement kiln #1, identified as EU20.
- (129) One (1) feed system for kiln #2, identified as EU26.
- (130) One (1) dry process rotary cement kiln #2 and associated preheater unit, equipped with an alkali bypass, identified as EU27.

**The Clinker Cooler #1 Facilities**

- (131) One (1) grate clinker cooler #1, identified as EU22.

**The Clinker Cooler #2 Facilities**

- (132) One (1) grate clinker cooler #2, identified as EU29.

**Insignificant Activities:** Note: Complete facility descriptions are in Section A.3

**Finish Product 501-Silos Storage and Packing Facilities**

- (4) **One (1) bag flattener for eliminating void space in cement bags at the BIC packer, identified as EU156.**

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

**National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements  
[326 IAC 2-7-5(1)]**

**F.2.1 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants under 40 CFR Part 63 [40 CFR Part 63, Subpart A] [326 IAC 20-1]**

- (a) Pursuant to 40 CFR 63, Subpart LLL, the Permittee shall comply with the provisions of 40 CFR Part 63 Subpart A - General Provisions, which are incorporated by reference as 326 IAC 20-1-1, except as otherwise specified in 40 CFR Part 63, Subpart LLL.
- (b) Pursuant to 40 CFR 63.10, the Permittee shall submit all required notifications and reports to:

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

**F.2.2 National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry [40 CFR Part 63, Subpart LLL]**

Pursuant to 40 CFR Part 63, Subpart LLL, on and after September 9, 2013, the Permittee shall comply with the provisions of the National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry (included as Attachment A of this permit) as published at 64 FR 31925-31962 (June 14, 1999), as amended at 64 FR 53070 (Sept. 30 1999), 67 FR 16619-16624 (April 5, 2002), 67 FR 44769 (July 5, 2002), 67 FR 72584-72585 (Dec. 6, 2002), 68 FR 37358 (June 23, 2003), 71 FR 76549-76552 (Dec. 20, 2006), 75 FR 55051-55066 (Sept. 9, 2010), and 76 FR 2835-2837 (Jan. 18, 2011), for all the facilities listed in Section F.2 except EU08, as specified as follows:

- (a) 40 CFR 63.1340
- (b) 40 CFR 63.1341
- (c) 40 CFR 63.1342
- (d) 40 CFR 63.1343 (a)
- (e) 40 CFR 63.1343 (b)(1) Table 1: Lines 1 - 4, 9 - 10, and 13 - 16.
- (f) 40 CFR 63.1343 (b)(2)
- (g) 40 CFR 63.1343 (c), and (d)
- (h) 40 CFR 63.1343 (e) Table 2: Lines 1, 3, 5, 6, and 8.
- (i) 40 CFR 63.1344
- (j) 40 CFR 63.1345
- (k) 40 CFR 63.1346 (a), (b), and (f)
- (l) 40 CFR 63.1347
- (m) 40 CFR 63.1348 (applicable portions to be determined prior to September 2013)
- (n) 40 CFR 63.1349(a)
- (o) 40 CFR 63.1349(b)(1)
- (p) 40 CFR 63.1349 (b)(2) and (b)(3)
- (q) 40 CFR 63.1350(a)
- (r) 40 CFR 63.13450 (b) and (d)
- (s) 40 CFR 63.13450 (f)(1), (f)(2), and (f)(3)
- (t) 40 CFR 63.1350 (f)(4) and (g)
- (u) 40 CFR 63.1350 (h), (i), and (j)
- (v) 40 CFR 63.1350 (k) and (l)
- (w) 40 CFR 63.1350 (m)
- (x) 40 CFR 63.1350(n)
- (y) 40 CFR 63.1350(o)
- (z) 40 CFR 63.1350(p)
- (aa) 40 CFR 63.1351
- (bb) 40 CFR 63.1352
- (cc) 40 CFR 63.1353
- (dd) 40 CFR 63.1354 (a), (b)(1) through (b)(8)
- (ee) 40 CFR 63.1354 (9)(i) through (9)(v)
- (ff) 40 CFR 63.1354(9)(vi)
- (gg) 40 CFR 63.1354(10)
- (hh) 40 CFR 63.1354(c)
- (ii) 40 CFR 63.1355 (a) through (d)
- (jj) 40 CFR 63.1355 (e), (f), and (g)
- (kk) 40 CFR 63.1356
- (ll) 40 CFR 63.1357
- (mm) 40 CFR 63.1358
- (nn) 40 CFR 63.1359: Table 1 to Subpart LLL of Part 63 - Applicability of General Provisions (applicable portions)

F.2.3 National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry [40 CFR Part 63, Subpart LLL] [326 IAC 20-27]

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Pursuant to 40 CFR Part 63, Subpart LLL, until September 9, 2013, the Permittee shall comply with the provisions of the National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry (included as Attachment B of this permit), *that were in effect or became effective December 20, 2006*, as published at 64 FR 31925-31962 (June 14, 1999), as amended at 64 FR 53070 (Sept. 30 1999), 67 FR 16619-16624 (April 5, 2002), 67 FR 44769 (July 5, 2002), 67 FR 72584-72585 (Dec. 6, 2002), 68 FR 37358 (June 23, 2003), 71 FR 76549-76552 (Dec. 20, 2006), for all the facilities listed in Section F.2 except EU121 and EU122, as specified as follows:

- (a) 40 CFR 63.1340
- (b) 40 CFR 63.1341
- (c) 40 CFR 63.1342
- (d) 40 CFR 63.1343 (a) and (b),
- (e) 40 CFR 63.1344 (a), (b), (f) and (g)

- (f) 40 CFR 63.1345
- (g) 40 CFR 63.1347
- (h) 40 CFR 63.1348
- (i) 40 CFR 63.1349 (a), (b)(1) and (b)(2),
- (j) 40 CFR 63.1349 (b)(3)(i), (ii), (iii) and (iv)
- (k) 40 CFR 63.1349(b)(4)(i)
- (l) 40 CFR 63.1349 (c), (d) and (e)
- (m) 40 CFR 63.1350 (a), (b), (c)(1), (d)(1) and (3), (e) and (f)
- (n) 40 CFR 63.1350 (h)(1) and (4), (i), (j), (k) (l), (n), (o), and (p)
- (o) 40 CFR 63.1352
- (p) 40 CFR 63.1354
- (q) 40 CFR 63.1355
- (r) 40 CFR 63.1356
- (s) 40 CFR 63.1357
- (t) 40 CFR 63.1358
- (21) Table 1 to Subpart LLL of Part 63 - Applicability of General Provisions

F.2.4 National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry [40 CFR Part 63, Subpart LLL] [326 IAC 20-27]

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Consistent with the U.S. EPA interpretation in Consent Decree 4:07-CV-0157, the provisions listed under 40 CFR 63.1343(b)(2) and 40 CFR 63.1348 shall apply to Stack S-15 as follows:

- (a) Stack S-15 shall not exceed twenty percent (20%) opacity when the Todd furnace (EU13) and the Loesche raw mill (EU14) are operating and the Loesche raw mill inlet damper is open and the fourth stage kiln gas temperatures are higher than two hundred degrees Fahrenheit (200<sup>o</sup>F).
- (b) Stack S-15 shall not exceed ten percent (10%) opacity when the Todd furnace (EU13) is operating in any configuration other than the configuration stated in F.2.4(a).
- (c) Stack S-15 shall not exceed twenty percent (20%) opacity when the Todd furnace (EU13) is not operating but kiln #2 (EU26) and the Loesche mill (EU14) are operating or kiln #2 alone is operating.

## INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

### OFFICE OF AIR QUALITY COMPLIANCE and ENFORCEMENT BRANCH

#### PART 70 OPERATING PERMIT CERTIFICATION

Source Name: Essroc Cement Corporation  
Source Address: 301 Highway 31, Speed, Indiana 47172-1305  
Part 70 Permit Renewal No.: T019-26989-00008

**This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this permit.**

Please check what document is being certified:

- Annual Compliance Certification Letter
- Test Result (specify)
- Report (specify)
- Notification (specify)
- Affidavit (specify)
- Other (specify)

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Phone:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE and ENFORCEMENT BRANCH  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251  
Phone: 317-233-0178  
Fax: 317-233-6865**

**PART 70 OPERATING PERMIT  
EMERGENCY OCCURRENCE REPORT**

Source Name: Essroc Cement Corporation  
Source Address: 301 Highway 31, Speed, Indiana 47172-1305  
Part 70 Permit Renewal No.: T019-26989-00008

**This form consists of 2 pages**

**Page 1 of 2**

<input type="checkbox"/> This is an emergency as defined in 326 IAC 2-7-1(12)
<input checked="" type="checkbox"/> The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and
<input checked="" type="checkbox"/> The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16.

If any of the following are not applicable, mark N/A

Facility/Equipment/Operation:
Control Equipment:
Permit Condition or Operation Limitation in Permit:
Description of the Emergency:
Describe the cause of the Emergency:

If any of the following are not applicable, mark N/A

**Page 2 of 2**

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency?    Y    N Describe:
Type of Pollutants Emitted: TSP, PM-10, SO <sub>2</sub> , VOC, NO <sub>x</sub> , CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by: \_\_\_\_\_

Title / Position: \_\_\_\_\_

Signature:

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE and ENFORCEMENT BRANCH**

**Part 70 Quarterly Report for Use When Combusting Only Coal**

Source Name: Essroc Cement Corporation  
Source Address: 301 Highway 31, Speed, Indiana 47172-1305  
Part 70 Permit Renewal No.: T019-26989-00008  
Facility: Kilns #1 and 2  
Parameter: Sulfur Dioxide (SO<sub>2</sub>) emissions  
Limit: 6.0 pounds per million Btu heat input

FACILITY: \_\_\_\_\_ YEAR: \_\_\_\_\_

Month	Monthly Average Coal Sulfur Content (%)	Monthly Average Coal Heat Content (MMBtu/lb)	Coal Consumption (Tons)	Equivalent Sulfur Dioxide Emissions (lbs/MMBtu)

- No deviation occurred in this quarter.
- Deviation/s occurred in this quarter.  
Deviation has been reported on:

Submitted by: \_\_\_\_\_  
Title / Position: \_\_\_\_\_  
Signature: \_\_\_\_\_  
Date: \_\_\_\_\_  
Phone: \_\_\_\_\_

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE and ENFORCEMENT BRANCH**

**Part 70 Quarterly Report for Use When Combusting Only Fuel Oil**

Source Name: Essroc Cement Corporation  
Source Address: 301 Highway 31, Speed, Indiana 47172-1305  
Part 70 Permit Renewal No.: T019-26989-00008  
Facility: Kilns #1 and 2  
Parameter: Sulfur Dioxide (SO<sub>2</sub>) emissions from fuel oil combustion  
Limit: 0.5 pounds per million Btu heat input

FACILITY: \_\_\_\_\_ YEAR: \_\_\_\_\_

Month	Monthly Average Fuel Oil Sulfur Content (%)	Monthly Average Fuel Oil Heat Content (MMBtu/lb)	Fuel Oil Consumption (Gallons)	Equivalent Sulfur Dioxide Emissions (lbs/MMBtu)

- No deviation occurred in this quarter.
- Deviation/s occurred in this quarter.  
Deviation has been reported on:

Submitted by: \_\_\_\_\_  
Title / Position: \_\_\_\_\_  
Signature: \_\_\_\_\_  
Date: \_\_\_\_\_  
Phone: \_\_\_\_\_

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF AIR QUALITY  
 COMPLIANCE and ENFORCEMENT BRANCH**

**Part 70 Quarterly Report for Use  
 When Combusting Coal and Fuel Oil Simultaneously**

Source Name: Essroc Cement Corporation  
 Source Address: 301 Highway 31, Speed, Indiana 47172-1305  
 Part 70 Permit Renewal No.: T019-26989-00008  
 Facility: Kilns #1 and 2  
 Parameter: Sulfur Dioxide (SO<sub>2</sub>) emissions from the simultaneous combustion of coal and oil  
 Limit: 6.0 pounds per million Btu heat input

Compliance with the SO<sub>2</sub> limit shall be determined using the following equation:

$$\text{SO}_2 \text{ emissions (lbs/MMBtu)} = (\text{Fuel oil usage} \times \text{EF coefficient} \times \text{fuel oil sulfur content} + \text{coal usage} \times \text{EF coefficient} \times \text{coal sulfur content}) / (\text{fuel oil usage} \times \text{HHV oil} + \text{coal usage} \times \text{HHV coal}).$$

FACILITY: \_\_\_\_\_ YEAR: \_\_\_\_\_

Month	Monthly Average Sulfur Content (%)		Monthly Average Heat Content (MMBtu/lb)		Month Fuel Consumption		Equivalent Sulfur Dioxide Emissions (lbs/MMBtu)
	Coal	Fuel Oil	Coal	Fuel Oil	Coal (tons)	Fuel Oil (gallons)	This Month
1							
2							
3							

- No deviation occurred in this quarter.
- Deviation/s occurred in this quarter.  
 Deviation has been reported on:

Submitted by: \_\_\_\_\_  
 Title / Position: \_\_\_\_\_  
 Signature: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Phone: \_\_\_\_\_

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE and ENFORCEMENT BRANCH**

**Part 70 Quarterly Report**

Source Name: Essroc Cement Corporation  
Source Address: 301 Highway 31, Speed, Indiana 47172-1305  
Part 70 Permit Renewal No.: T019-26989-00008  
Facility: Fuel oil-fired preheaters (EU13, EU68, and EU69)  
Parameter: Sulfur Dioxide (SO<sub>2</sub>) emissions  
Limit: 0.5 pounds per million Btu heat input

FACILITY: \_\_\_\_\_ YEAR: \_\_\_\_\_

Month	Monthly Average Fuel Oil Sulfur Content (%)	Monthly Average Fuel Oil Heat Content (MMBtu/lb)	Fuel Oil Consumption (Gallons)	Equivalent Sulfur Dioxide Emissions (lbs/MMBtu)

- No deviation occurred in this quarter.
- Deviation/s occurred in this quarter.  
Deviation has been reported on:

Submitted by: \_\_\_\_\_  
Title / Position: \_\_\_\_\_  
Signature: \_\_\_\_\_  
Date: \_\_\_\_\_  
Phone: \_\_\_\_\_

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE and ENFORCEMENT BRANCH**

**Part 70 Quarterly Report**

Source Name: Essroc Cement Corporation  
Source Address: 301 Highway 31, Speed, Indiana 47172-1305  
Part 70 Permit Renewal No.: T019-26989-00008  
Facility: Quarry drilling  
Parameter: Number of holes drilled  
Limit: 38,000 per 12 consecutive month period

YEAR:

Facility	Month	Column 1	Column 2	Column 1 + Column 2
		This Month	Previous 11 Months	12 Month Total
quarry drilling	Month 1			
	Month 2			
	Month 3			

- No deviation occurred in this quarter.
- Deviation/s occurred in this quarter.  
Deviation has been reported on:

Submitted by: \_\_\_\_\_  
Title / Position: \_\_\_\_\_  
Signature: \_\_\_\_\_  
Date: \_\_\_\_\_  
Phone: \_\_\_\_\_

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF AIR QUALITY  
 COMPLIANCE AND ENFORCEMENT BRANCH  
 100 North Senate Avenue  
 MC 61-53 IGCN 1003  
 Indianapolis, Indiana 46204-2251  
 Phone: 317-233-0178  
 Fax: 317-233-6865**

**PART 70 OPERATING PERMIT  
 Semi-Annual report**

Source Name: ESSROC Cement Corporation  
 Source Address: Highway 31, Speed, Indiana 47172  
 Part 70 Permit No.: T019-26989-00008  
 Facility: Kiln #2 and associated preheater, including the alkali bypass, identified as EU027  
 USEPA Consent Decree Limit: 2.10 pounds of NOx per ton of Clinker produced, based on a 30-day rolling average.

Month: \_\_\_\_\_ Year: \_\_\_\_\_

Day	NOx Emissions (lb/ton)	Day	NOx Emissions (lb/ton)
1		17	
2		18	
3		19	
4		20	
5		21	
6		22	
7		23	
8		24	
9		25	
10		26	
11		27	
12		28	
13		29	
14		30	
15		Total	
16		Average NOx Emissions (Total/30)	

- No deviation occurred in this month.  
 Deviation/s occurred in this month.  
 Deviation has been reported on:

Submitted by:  
 Title/Position:  
 Signature:  
 Date:  
 Phone:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE and ENFORCEMENT BRANCH**

**PART 70 OPERATING PERMIT  
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Essroc Cement Corporation  
Source Address: 301 Highway 31, Speed, Indiana 47172-1305  
Part 70 Permit Renewal No.: T019-26989-00008

Months: \_\_\_\_\_ to \_\_\_\_\_ Year: \_\_\_\_\_

Page 1 of 2

This report shall be submitted quarterly based on a calendar year. Proper notice submittal under Section B - Emergency Provisions satisfies the reporting requirements of paragraph (a) of Section C - General Reporting. Any deviation from the requirements of this permit, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. Deviations that are required to be reported by an applicable requirement shall be reported according to the schedule stated in the applicable requirement and do not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD

**Permit Requirement** (specify permit condition #)

**Date of Deviation:**

**Duration of Deviation:**

**Number of Deviations:**

**Probable Cause of Deviation:**

**Response Steps Taken:**

**Permit Requirement** (specify permit condition #)

**Date of Deviation:**

**Duration of Deviation:**

**Number of Deviations:**

**Probable Cause of Deviation:**

**Response Steps Taken:**

<b>Permit Requirement</b> (specify permit condition #)	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	
<b>Permit Requirement</b> (specify permit condition #)	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	
<b>Permit Requirement</b> (specify permit condition #)	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	

Form Completed by: \_\_\_\_\_

Title / Position: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

**Indiana Department of Environmental Management  
Office of Air Quality**

Technical Support Document (TSD) for a Part 70 Significant Permit  
Modification

**Source Description and Location**

Source Name:	Essroc Cement Corporation
Source Location:	301 Highway 31, Speed, Indiana 47172-1305
County:	Clark
SIC Code:	3241
Part 70 Operating Permit No.:	T 019-6016-00008
Operation Permit Issuance Date:	June 15, 2004
Significant Permit Modification No.:	019-31269-00008
Permit Reviewer:	Aida DeGuzman

**Source Definition**

This portland cement manufacturing company consists of one (1) plant:

Essroc Cement Corporation, #00008 located at 301 Highway 31, Speed, IN 47172.

IDEM has determined that Hanson Aggregates Midwest Inc. - Aggrock Quarries, #05017 located at 5501 Highway 403, Sellersburg, IN 47172 is not under common control of Essroc Cement Corporation; therefore, they are considered separate sources for the purposes of Part 70 applicability.

**Existing Approvals**

The source was issued Part 70 Operating Permit No. T019-6016-00008 on June 15, 2004. The source has since received the following approvals:

- (a) First Administrative Amendment No.019-25019-00008, issued September 9, 2007;
- (b) Second Administrative Amendment No.019-26369-00008, issued April 15, 2008;
- (c) First Significant Permit Modification/Plantwide Applicability Limitation No.019-21450-00008, issued May 8, 2008;
- (d) Temporary Operation No. 019-28623-00008, issued on November 30, 2009;
- (e) Third Administrative Amendment No. 019-28737-00008, issued on January 7, 2010; and
- (f) Temporary Operation No. 019-31604-00008, issued on March 29, 2012.

**County Attainment Status**

The source is located in Clark County.

Pollutant	Designation
SO <sub>2</sub>	Better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O <sub>3</sub>	Attainment effective July 19, 2007, for the 8-hour ozone standard. <sup>1</sup>
PM <sub>10</sub>	Unclassifiable effective November 15, 1990.
NO <sub>2</sub>	Cannot be classified or better than national standards.
Pb	Not designated.
<sup>1</sup> Attainment effective October 23, 2001, for the 1-hour ozone standard for the Louisville area, including Clark County, and is a maintenance area for the 1-hour ozone National Ambient Air Quality Standard (NAAQS) for purposes of 40 CFR Part 51, Subpart X*. The 1-hour standard was revoked effective June 15, 2005.  Nonattainment effective April 2, 2005, for PM <sub>2.5</sub> .	

(a) Ozone Standards

Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to ozone. Clark County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(b) PM<sub>2.5</sub>

Clark County has been classified as nonattainment for PM<sub>2.5</sub> in 70 FR 943 dated January 5, 2005. On May 8, 2008, U.S. EPA promulgated specific New Source Review rules for PM<sub>2.5</sub> emissions. These rules became effective on July 15, 2008. Therefore, direct PM<sub>2.5</sub> and SO<sub>2</sub> emissions were reviewed pursuant to the requirements of Nonattainment New Source Review, 326 IAC 2-1.1-5. See the State Rule Applicability – Entire Source section.

(c) Other Criteria Pollutants

Clark County has been classified as attainment or unclassifiable in Indiana for all the other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

**Fugitive Emissions**

Since this source is classified as a portland cement plant, it is considered one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2, 326 IAC 2-3, or 326 IAC 2-7. Therefore, fugitive emissions are counted toward the determination of PSD, Emission Offset, and Part 70 Permit applicability.

**Source Status**

Pollutant	tons/year
PM	greater than 100
PM <sub>10</sub>	greater than 100
PM <sub>2.5</sub>	greater than 100
SO <sub>2</sub>	greater than 100
VOC	greater than 100
CO	greater than 100
NO <sub>x</sub>	greater than 100

Pollutant	tons/year
GHG	greater than 100,000 of CO <sub>2</sub> e

HAP's	Potential Emissions after controls (tons/year)
Arsenic compounds	less than 10
Benzene	less than 10
Beryllium compounds	less than 10
Biphenyl	less than 10
Bis(2-ethylhexyl)phthalate	less than 10
Bromomethane	less than 10
Cadmium compounds	less than 10
Carbon disulfide	less than 10
Chlorobenzene	less than 10
Chloromethane	less than 10
Chromium compounds	less than 10
Di-n-butylphthalate	less than 10
Ethylbenzene	less than 10
Formaldehyde	less than 10
Hydrogen chloride	greater than 10
Lead compounds	less than 10
Manganese compounds	less than 10
Methyl ethyl ketone	less than 10
Methylene chloride	less than 10
Mercury compounds	less than 10
Naphthalene	less than 10
Phenol	less than 10
Selenium compounds	less than 10
Styrene	less than 10
Toluene	less than 10
Total PCDF	less than 10
Total TCDF	less than 10
Xylenes	less than 10
<b>TOTAL</b>	<b>greater than 25</b>

Note: HAPs are not regulated under PSD rules, 326 IAC 2-2, except Lead, Beryllium and Mercury.

- (a) This existing stationary source is major for PSD because the emissions of at least one criteria pollutant are greater than one hundred (>100) tons per year, emissions of GHGs are equal to or greater than one hundred thousand (>100,000) tons of CO<sub>2</sub> equivalent (CO<sub>2</sub>e) emissions per year, and it is in one of the twenty-eight (28) listed source categories.
- (b) This existing stationary source is major for Nonattainment NSR because the emissions of the nonattainment pollutant, PM<sub>2.5</sub>, and the precursor SO<sub>2</sub>, are greater than one hundred (>100) tons per year.

- (c) These emissions are based upon the Technical Support Document (TSD) for Part 70 Operating Permit T019-6016-00008, issued on June 15, 2004.
- (d) This existing source is a major source of HAPs, as defined in 40 CFR 63.2, because single HAP (hydrogen chloride) emissions are greater than ten (10) tons per year or greater than twenty-five (25) tons per year for a combination of HAPs). Therefore, this source is a major source under Section 112 of the Clean Air Act (CAA).

**Description of Proposed Modification**

The Office of Air Quality (OAQ) has reviewed a modification application, submitted by Essroc Cement Corporation on December 15, 2011 relating to the construction of the following equipment:

One (1) Selective Non-Catalytic Reduction (SNCR) control system to control NOx emissions from the one (1) dry process rotary cement kiln #2 and associated preheater unit, equipped with an alkali bypass, identified as EU027.

EPA has initiated a global NSR-related settlement with all Essroc Cement plants to resolve alleged violations of the Clean Air Act (CAA). As part of this settlement agreement/Consent Order, SNCR is being installed to control the NOx emissions from Kiln #2.

**Enforcement Issues**

There are pending USEPA enforcement actions related to this modification.

**Permit Level Determination – Part 70**

The addition of a Selective Non-Catalytic Reduction (SNCR) control system to control NOx from the existing permitted Kiln #2, will be subject to a Significant Permit Modification, under 326 IAC 2-7-12(d), for modifications that do not qualify as minor permit modification or as administrative amendment, since it will include Title I changes with the addition of emission limitations, pursuant to the USEPA Consent Order. In addition, parametric monitoring requirements are required for this control device.

**Proposed Changes**

The changes listed below have been made to Part 70 Operating Permit No.019-31269-00008. Deleted language appears as ~~strike throughs~~ and new language appears in **bold**:

*IDEM has made the following changes to the Part 70 Operating Permit to incorporate the USEPA Consent Decree No. 2:11-cv-0650-DSC, requiring the installation of a SNCR to control NOx emissions from Kiln #2 with the following emission limitations and monitoring requirements:*

Kiln ID	Control Technology	30-day Rolling Average NOx Emission Limit (lb/ton Clinker Produced)	Date Required to Meet 30-Day Rolling Average Emission Limit
Speed Kiln #2	SNCR	2.10	December 31, 2012

### Changes to Section A.3:

#### A.3 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]

---

This stationary source consists of the following emission units and pollution control devices:

\* \* \*

#### The kiln #1 and kiln #2 facilities

\* \* \*

- (130) One (1) dry process rotary cement kiln #2 and associated preheater unit, equipped with an alkali bypass, identified as EU27, constructed in 1977, **and approved in 2012 to install a Selective Non-Catalytic Reduction (SNCR) to control its NOx emissions**, with a nominal heat input capacity of 302 million Btu per hour, with a nominal production rate of 105 tons per hour (as clinker), with PM emissions controlled by two (2) baghouses, identified as baghouse 15 and baghouse 16 (alkali bypass system), and exhausting to stacks S-15 and S-16, respectively.

### Changes to Section D.3:

#### ~~Emission Limitations and Standards [326 IAC 2-7-5(1)]~~

##### ~~D.3.1 Particulate Matter (PM) [326 IAC 6.5-2-4]~~

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~~Pursuant to 326 IAC 326 IAC 6.5-2-4, the following conditions shall apply:~~

- ~~(1) The combined particulate matter emissions from the kiln #2 system which includes kiln #2 (EU27), kiln #2 alkali bypass (EU28), the fuel oil-fired air heater for kiln #2 (EU69), and clinker cooler #2 (EU29), shall not exceed 265.20 tons per year and 0.4 pound per ton of kiln feed (dry basis).~~
- ~~(2) The combined particulate matter emissions from the kiln #1 system, which includes kiln #1 (EU20), the fuel oil-fired air heater (EU68), and clinker cooler #1 (EU22), shall not exceed 251.20 tons per year and 0.58 pound per ton of kiln feed (dry basis).~~

##### ~~D.3.2 Particulate Matter (PM) [326 IAC 6.5-1-2] [326 IAC 2-2] [326 IAC 2-7-6(3)] [326 IAC 2-7-15]~~

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~~(a) Pursuant to 326 IAC 326 IAC 6.5-1-2, the following conditions shall apply:~~

- ~~(1) The particulate matter emissions from the kiln #2 feed system (EU26) shall not exceed 0.03 grains per dry standard cubic foot of exhaust air.~~
- ~~(2) The particulate matter emissions from the kiln #1 feed system (EU19) shall not exceed 0.03 grains per dry standard cubic foot of exhaust air.~~
- ~~(3) The PM emission rate from each of the coal handling, milling and storage facilities (EU66, EU67, EU149, EU150, and EU151) shall not exceed 0.03 grains per dry standard cubic foot of exhaust air.~~
- ~~(4) The PM emission rate from each of the raw mill facilities shall not exceed 0.03 grains per dry standard cubic foot of exhaust air.~~

~~(b) In order to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable, the following conditions shall apply:~~

- ~~(1) The PM emissions from filter 255 controlling the kiln #2 coal handling system (EU151) shall not exceed 0.27 pounds per hour.~~
- ~~(2) The PM10 emissions from filter 255 controlling the kiln #2 coal handling system (EU151) shall not exceed 0.16 pounds per hour.~~

- (3) ~~The PM emissions from baghouse 253 controlling the kiln #2 coal dust silo (EU149) shall not exceed 3.65 pounds per hour.~~
- (4) ~~The PM10 emissions from baghouse 253 controlling the kiln #2 coal dust silo (EU149) shall not exceed 2.19 pounds per hour.~~
- (5) ~~The PM emissions from filter 254 controlling the kiln #2 coal weigh system (EU150) shall not exceed 0.68 pounds per hour.~~
- (6) ~~The PM10 emissions from filter 254 controlling the kiln #2 coal weigh system (EU150) shall not exceed 0.41 pounds per hour.~~
- (7) ~~The PM emissions from baghouse 228 controlling the elevator for transferring material from the hopper to the additive bin shall not exceed 5.68 pounds per hour.~~
- (8) ~~The PM10 emissions from baghouse 228 controlling the elevator for transferring material from the hopper to the additive bin shall not exceed 3.40 pounds per hour.~~

~~Therefore, the requirements of 326 IAC 2-2 (PSD) shall not apply.~~

#### ~~D.3.3 Sulfur Dioxide (SO<sub>2</sub>) [326 IAC 7-1.1-1]~~

- (a) ~~Pursuant to 326 IAC 7-1.1 (SO<sub>2</sub> Emissions Limitations) the SO<sub>2</sub> emissions from the combustion of coal or the simultaneous combustion of coal and oil, in kiln #1 and kiln #2 shall not exceed six (6.0) pounds per MMBtu heat input. Compliance shall be demonstrated on a calendar month average.~~
- (b) ~~Pursuant to 326 IAC 7-1.1 (SO<sub>2</sub> Emissions Limitations) the SO<sub>2</sub> emissions from the combustion of fuel oil only from each of the kilns shall not exceed five tenths (0.5) pounds per MMBtu heat input. Pursuant to 326 IAC 7-2-1, compliance shall be demonstrated on a calendar month average.~~
- (c) ~~Pursuant to 326 IAC 7-1.1 (SO<sub>2</sub> Emissions Limitations) the SO<sub>2</sub> emissions from each of the fuel oil-fired furnaces (EU68, and EU69) and the Todd furnace (EU13) shall not exceed 0.5 pound per million Btu of heat input when combusting fuel oil. Compliance shall be demonstrated on a calendar month average.~~

#### ~~D.3.4 General Provisions Relating to NESHAP [326 IAC 20-1][40 CFR Part 63, Subpart A]~~

~~The provisions of 40 CFR Part 63, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 20-1, apply to the raw mill facilities, the kiln #1 feed system (EU19), and the kiln #2 feed system (EU26), the coal handling, milling, and storage facilities (EU66, EU67, EU149, EU150, and EU151), the kiln #1 system, which includes kiln #1 (EU20), the fuel oil-fired air heater for kiln #1 (EU68), and clinker cooler #1 (EU22), and the kiln #2 system which includes kiln #2 (EU27), kiln #2 alkali bypass (EU28), the fuel oil-fired air heater for kiln #2 (EU69), and clinker cooler #2 (EU29), as described in this section except when otherwise specified in 40 CFR Part 63, Subpart LLL.~~

#### ~~D.3.5 NESHAP Emissions Limitation [40 CFR Part 63, Subpart LLL]~~

- (a) ~~Pursuant to 40 CFR 63.1343 (Emissions Standards and Operating Limits), on and after June 14, 2002, which is the compliance date for the National Emission Standards for Hazardous Air Pollutants (NESHAP) from the Portland Cement Manufacturing Industry, kiln #1 and kiln #2 shall be limited as follows:~~
  - (1) ~~The particulate matter (PM) emissions from kiln #1 shall not exceed 0.30 pound per ton of feed (dry basis) to the kiln #1.~~

- (2) ~~The combined particulate matter emissions from the kiln #2 (EU27), the fuel oil-fired air heater for kiln #2 (EU69), and kiln #2 alkali bypass (EU28) shall not exceed 0.30 pound per ton of feed (dry basis) to the kiln #2.~~
  - (3) ~~Visible emissions from kiln #1 shall be limited to twenty percent (20%) opacity.~~
  - (4) ~~When kiln #2 and the Loesche raw mill (EU14) are both operating, the visible emissions from the baghouse controlling the Loesche raw mill and kiln #2 shall not exceed ten percent (10%) opacity. IDEM and USEPA have information that indicates that the Permittee is not in compliance with this opacity limit. The OAQ will promptly reopen this permit using the provisions of 326 IAC 2-7-9 (Permit Reopening) to include detailed requirements necessary to comply with this opacity limit and a schedule for achieving compliance with such requirement.~~
  - (5) ~~When the Loesche raw mill (EU14) is operating and the kiln #2 is not operating, the visible emissions from the baghouse controlling the Loesche raw mill shall not exceed 10% opacity.~~
  - (6) ~~When the kiln #2 is operating and Loesche raw mill (EU14) is not operating, the visible emissions from the baghouse controlling kiln #2 shall not exceed 20% opacity.~~
  - (7) ~~Dioxin/Furan emissions shall be limited to  $8.7 \times 10^{-11}$  grains per dry standard cubic foot (TEQ) corrected to seven percent oxygen; or  $1.7 \times 10^{-10}$  grains 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 degrees Fahrenheit or less.~~
  - (8) ~~The Kilns shall operate such that the three-hour rolling average PMCD inlet temperature is no greater than the temperature established at the performance test.~~
- (b) ~~Pursuant to 40 CFR 63.1345 (Emissions Standards and Operating Limits), on and after June 14, 2002, which is the compliance date for the National Emission Standards for Hazardous Air Pollutants (NESHAP) from the Portland Cement Manufacturing Industry, each clinker cooler shall be limited as follows:~~
- (1) ~~Particulate matter (PM) emissions shall be limited to 0.10 pound per ton of feed (dry basis) to the kiln.~~
  - (2) ~~Visible emissions shall be limited to ten percent (10%) opacity.~~
- (c) ~~Pursuant to 40 CFR 63.1348 (Emissions Standards and Operating Limits), on and after June 14, 2002, which is the compliance date for the National Emission Standards for Hazardous Air Pollutants (NESHAP) from the Portland Cement Manufacturing Industry, the visible emissions from the raw mill facilities, the kiln #1 feed system (EU19), the kiln #2 feed system (EU26), the coal (crusher) mill #1 (EU66), the coal (crusher) mill #2 (EU67), the fuel oil-fired air heater for kiln #1 coal mill (EU68), the fuel oil-fired air heater for kiln #2 coal mill (EU69), the kiln #2 coal dust silo (EU149), the kiln #2 coal weigh system (EU150), and the kiln #2 coal handling system (EU151) shall not exceed ten percent (10%) opacity.~~

~~D.3.6 Determinations of Nonapplicability [40 CFR 60, Subparts A and F]~~

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~~The raw mill facilities (EU09 through EU15, EU17, and EU107 through EU109), the kiln #2 (EU27) and associated preheater unit, alkali bypass (EU28), and kiln #2 feed system (EU26), the clinker cooler #2 (EU29), and the coal handling, milling, and storage facilities (EU67, EU69, EU149, EU150, and EU151) are not subject to the requirements of the New Source Performance Standards (NSPS), 40 CFR 60, Subparts A and F (Standards of Performance for Portland Cement Plants) because the requirements of the NESHAP 40 CFR 63 Subpart LLL superseded the requirements of the NSPS on June 14, 2002. The kiln #1 system, the kiln #1 feed system (EU19), the clinker cooler #1 (EU22), the coal crusher mill #1 (EU66), and the fuel oil-fired air heater for kiln #1 (EU68) are not subject to the requirements of the New Source Performance Standards (NSPS), 40 CFR 60, Subparts A and F (Standards of Performance for Portland Cement Plants) because they were constructed prior to the applicability date of August 17, 1971.~~

~~D.3.7 NOx Emissions [326 IAC 10-1] [326 IAC 10-3]~~

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- ~~(a) Pursuant to 326 IAC 10-1-4, NOx emissions from the long dry rotary cement kiln #1 (EU20) shall not exceed 10.8 pounds per ton of clinker produced on an operating day basis and 6.0 pounds per ton of clinker produced on a thirty (30) day rolling average.~~
- ~~(b) The following requirements apply to the dry preheater rotary cement kiln #2 (EU27):~~
- ~~(1) Pursuant to 326 IAC 10-1-4, NOx emissions shall not exceed 5.9 pounds per ton of clinker produced on an operating day basis and 4.4 pounds per ton clinker produced on a thirty (30) day rolling average basis.~~
  - ~~(2) Pursuant to 326 IAC 10-3-3, after May 31, 2004 and during the ozone control period of each year, the Permittee shall comply with one (1) of the following:~~
    - ~~(A) The kiln shall operate with Low-NOx burners; or~~
    - ~~(B) NOx emissions shall not exceed 3.8 pounds per ton of clinker produced, averaged over the ozone control period.~~

~~D.3.8 NSPS for Coal Preparation Plants [326 IAC 12] [40 CFR 60, Subpart Y]~~

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- ~~(a) The provisions of 40 CFR Part 60, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 12-1, apply to the facilities listed in paragraph (b) below, and as described in this section except when otherwise specified in 40 CFR Part 60, Subpart Y.~~
- ~~(b) Pursuant to 40 CFR 60, Subpart Y, the following conditions shall apply to the coal handling, milling, and storage facilities, including the coal (crusher) mill #2 (EU67), and the fuel oil-fired air heater for kiln #2 (EU69):~~
- ~~(1) The opacity from each of these facilities shall be less than 20 percent.~~
  - ~~(2) The particulate matter emissions from the coal (crusher) mill #2 (EU67) shall not exceed 0.031 grains per dry standard cubic foot of exhaust air (0.070 g/dscm).~~
  - ~~(3) The Permittee shall install, calibrate, maintain, and continuously operate a monitoring device for the measurement of the temperature of the gas stream at the exit of the coal (crusher) mill #2 (EU67) on a continuous basis. The monitoring device is to be certified by the manufacturer and be accurate within plus or minus 3 degrees Fahrenheit. The monitoring device shall be recalibrated annually in accordance with the procedures specified in 40 CFR 60.13(b).~~

~~D.3.9 Preventive Maintenance Plan [326 IAC 2-7-5(13)] [326 IAC 10-3] [40 CFR 63, Subpart LLL]~~

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~~A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for all of the control devices listed in this section, and for the kilns and clinker coolers.~~

### Compliance Determination Requirements

#### ~~D.3.10 Testing Requirements [40 CFR 63, Subpart LLL] [326 IAC 20-27-1][326 IAC 2-7-6(1)(6)][326 IAC 2-1.1-11]~~

- ~~(a) The Permittee shall test kiln #1 (EU20), kiln #2 (EU27) and associated preheater, kiln #2 alkali bypass (EU28), clinker cooler #1 (EU22), clinker cooler #2 (EU29), kiln feed system #1 (EU19), kiln feed system #2 (EU26), kiln #2 coal dust silo (EU149), kiln #2 coal weigh system (EU150), and kiln #2 coal handling system (EU151) for PM emissions in order to demonstrate compliance with Conditions D.3.1 and D.3.2, utilizing methods as approved by the Commissioner. These tests shall be conducted within 180 days after the issuance of this Part 70 permit, or within 2.5 years after the last valid compliance demonstration, whichever is later. The tests to demonstrate compliance with Condition D.3.1 shall be repeated at least every 2.5 years from the date of this valid compliance demonstration. These tests shall be conducted in accordance with Section C - Performance Testing. All associated facilities exhausting to a single stack must all be operating when determining compliance with the limit.~~
- ~~(b) Within 180 days after the issuance of this Part 70 permit the Permittee shall conduct a Method 5 stack test to determine compliance with the particulate matter emission limit for the coal (crusher) mill #2 (EU67) in Condition D.3.8. The Permittee shall conduct Method 9 opacity tests to determine compliance with the opacity limits for the fuel oil fired air heater for kiln #2 coal mill (EU69) in Condition D.3.8. These tests shall be conducted in accordance with Section C - Performance Testing.~~
- ~~(c) No later than 180 days after June 14, 2002, which is the compliance date for the Portland Cement Manufacturing Industry NESHAP, the Permittee shall demonstrate initial compliance with the opacity limits established in Condition D.3.5(c) for the kiln #1 feed system (EU19), the kiln #2 feed system (EU26), the coal (crusher) mill #1 (EU66), the coal (crusher) mill #2 (EU67), the fuel oil-fired air heater for kiln #1 coal mill (EU68), the fuel oil-fired air heater for kiln #2 coal mill (EU69), the kiln #2 coal dust silo (EU149), the kiln #2 coal weigh system (EU150), and the kiln #2 coal handling system (EU151) by conducting performance tests in accordance with 40 CFR 63.1349, Method 9 of 40 CFR Part 60, Appendix A, and Section C - Performance Testing. These tests shall be conducted in accordance with Section C - Performance Testing.~~
- ~~(d) No later than 180 days after June 14, 2002, which is the compliance date for the Portland Cement Manufacturing Industry NESHAP, the Permittee shall demonstrate initial compliance with the PM and opacity limits established in Condition D.3.5(b) for clinker cooler #1 and clinker cooler #2 by conducting performance tests in accordance with 40 CFR 63.1349, Methods 5 and 9 of 40 CFR Part 60, Appendix A, and Section C - Performance Testing. These tests shall be repeated at least once every 5 years from the date of this valid compliance demonstration. These tests shall be conducted in accordance with Section C - Performance Testing.~~
- ~~(e) No later than 180 days after June 14, 2002, which is the compliance date for the Portland Cement Manufacturing Industry NESHAP, the Permittee shall demonstrate initial compliance with the PM, opacity and dioxin/furan limits established in Condition D.3.5(a) for kiln #1 and kiln #2 by conducting performance tests in accordance with 40 CFR 63.1349 and Methods 5, 9 and 23 of 40 CFR Part 60, Appendix A, respectively and Section C - Performance Testing. These tests shall be repeated at least once every 5 years from the date of this valid compliance demonstration. The Permittee is also required to repeat the performance tests for particulate matter and dioxins/furans within 90 days of initiating any significant change in the feed or fuel from that used in the previous test. These tests shall be conducted in accordance with Section C - Performance Testing.~~
- ~~(f) During each stack test required above, the following items shall be performed:~~

- ~~(1) Certified continuous opacity monitoring (COM) data shall be observed and recorded or EPA Method 9 opacity tests shall be performed.~~
- ~~(2) The kiln temperature and oxygen concentration shall be measured and recorded.~~
- ~~(3) The clinker production rate shall be measured and recorded.~~
- ~~(4) Pursuant to 326 IAC 3-6-3(b)(2) and 40 CFR 63.7(e), the tests shall be conducted under representative operating conditions.~~
- ~~(5) Pursuant to 326 IAC 3-6-3(b), during the performance tests, each kiln and clinker cooler must be operating at 95 percent of its maximum production capacity or more, or under other capacities or conditions specified and approved by IDEM, to be considered a valid test.~~

#### D.3.11 Particulate Matter (PM) Control

Except as otherwise provided by statute, rule, or this permit, in order to comply with Conditions D.3.1, D.3.2, D.3.5, and D.3.8, the following conditions shall apply:

- ~~(a) The baghouse 209 for PM control shall be in operation at all times and control emissions from the kiln #1 feed system when the kiln #1 feed system is in operation.~~
- ~~(b) The baghouse 221 for PM control shall be in operation at all times and control emissions from the kiln #1 when the kiln #1 is in operation.~~
- ~~(c) The baghouse 231 for PM control shall be in operation at all times and control emissions from the kiln #2 feed system when the kiln #2 feed system is in operation.~~
- ~~(d) Baghouse 15 and baghouse 16, for PM control, shall be in operation at all times and control emissions from the kiln #2 and raw mill when the kiln #2 or the raw mill is in operation.~~
- ~~(e) The baghouse 232 for PM control shall be in operation at all times and control emissions from the kiln #2 alkali bypass when the kiln #2 alkali bypass is in operation.~~
- ~~(f) The baghouse 222 for PM control shall be in operation at all times and control emissions from the clinker cooler #1 when the clinker cooler #1 is in operation.~~
- ~~(g) The baghouse 17 for PM control shall be in operation at all times and control emissions from the clinker cooler #2 when the clinker cooler #2 is in operation.~~
- ~~(h) Each baghouse or filter controlling any of the coal handling, milling, and storage facilities shall be in operation at all times when the associated facility is in operation.~~
- ~~(i) In the event that bag failure is observed in a multi-compartment bagfilter, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.~~

~~D.3.12 Sulfur Dioxide Emissions and Sulfur Content [326 IAC 2-7-5(A)] [326 IAC 2-7-6]~~

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~~Pursuant to 326 IAC 7-2, the Permittee shall demonstrate that the sulfur dioxide emissions from coal combustion or simultaneous combustion of coal and oil, do not exceed six (6.0) pounds per MMBtu. Pursuant to 326 IAC 7-2, compliance with the limit in Condition D.3.3 shall be determined utilizing one of the following methods:~~

~~(a) Coal sampling and analysis shall be performed using one of the following procedures:~~

~~(1) Minimum Coal Sampling Requirements and Analysis Methods [326 IAC 3-7-2(b)(3)]:~~

~~(A) The coal sample acquisition point shall be at a location where representative samples of the total coal flow to be combusted by the facility or facilities may be obtained. A single as-bunkered or as-burned sampling station may be used to represent the coal to be combusted by multiple facilities using the same stockpile feed system;~~

~~(B) Coal shall be sampled at least three (3) times per day and at least one (1) time per eight (8) hour period unless no coal is bunkered during the preceding eight (8) hour period;~~

~~(C) Minimum sample size shall be five hundred (500) grams;~~

~~(D) Samples shall be composited and analyzed at the end of each calendar month;~~

~~(E) Preparation of the coal sample, heat content analysis, and sulfur content analysis shall be determined pursuant to 326 IAC 3-7-2(c), (d), and (e); or~~

~~(2) Sample and analyze the coal pursuant to 326 IAC 3-7-2(a). Preparation of the coal sample heat content analysis, and sulfur content analysis shall be determined pursuant to 326 IAC 3-7-2(c), (d), and (e);~~

~~(3) Sample and analyze the coal pursuant to 326 IAC 3-7-3; or~~

~~(b) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from the kilns, in accordance with 326 IAC 3-6, utilizing the procedures in 40 CFR 60, Appendix A, Method 6, 6A, 6C, and 8. [326 IAC 7-2-1(d)]~~

~~(c) Upon written notification to IDEM by a facility owner or operator, continuous emission monitoring data collected and reported pursuant to 326 IAC 3-5-1 may be used as the means for determining compliance with the emission limitations in 326 IAC 7-2. Upon such notification, the other requirements of 326 IAC 7-2 shall not apply. [326 IAC 7-2-1(g)]~~

~~A determination of noncompliance pursuant to any of the methods specified in (a) or (b) above shall not be refuted by evidence of compliance pursuant to the other method.~~

~~D.3.13 Sulfur Dioxide Emissions and Sulfur Content [326 IAC 2-7-5(A)] [326 IAC 2-7-6]~~

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~~Compliance with the limit in Condition D.3.3(b) and (c) shall be determined utilizing one of the following options.~~

~~(a) Pursuant to 326 IAC 3-7-4, the Permittee shall demonstrate that the sulfur dioxide emissions do not exceed five-tenths (0.5) pounds per million Btu heat input by:~~

- ~~(1) Providing vendor analysis of fuel delivered, if accompanied by a vendor certification, or;~~
- ~~(2) Analyzing the oil sample to determine the sulfur content of the oil via the procedures in 40 CFR 60, Appendix A, Method 19.
  - ~~(A) Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and~~
  - ~~(B) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling.~~~~
- ~~(b) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from each of the kilns and heaters, using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.~~

A determination of noncompliance pursuant to any of the methods specified in (a) or (b) above shall not be refuted by evidence of compliance pursuant to the other method.

~~D.3.14 Continuous Emissions Monitoring [326 IAC 3-5] [326 IAC 2-7-6(1),(6)] [40 CFR 63, Subpart LLL] [326 IAC 10-1] [326 IAC 10-3]~~

- ~~(a) Pursuant to 326 IAC 3-5 (Continuous Monitoring of Emissions), 326 IAC 2-1.1-11 and 40 CFR Part 63.1350 a continuous monitoring system shall be installed, calibrated, maintained, and operated for measuring the opacity from each of the kilns, pursuant to 326 IAC 3-5. The continuous monitoring system shall be installed and operational prior to conducting the performance tests required in Condition D.3.10.~~
- ~~(b) Pursuant to 326 IAC 3-5 (Continuous Monitoring of Emissions), 326 IAC 2-1.1-11, 40 CFR Part 63, a continuous monitoring system shall be installed, calibrated, maintained, and operated for measuring opacity from both of the clinker coolers.~~
- ~~(c) The continuous monitoring systems shall meet the performance specifications of 326 IAC 3-5-2, and shall demonstrate continuous compliance with Section C - Opacity, and Conditions D.3.5(a)(3) and (b)(2) and D.3.8(b).~~
- ~~(d) The continuous opacity monitoring systems shall meet the performance specifications of 326 IAC 3-5-2 and 40 CFR 63.8(c).~~
- ~~(e) Pursuant to 326 IAC 10-1 and 326 IAC 10-3, compliance with the NO<sub>x</sub> limits for the kilns in Condition D.3.7, 326 IAC 10-1, and 326 IAC 10-3 shall be demonstrated by installing and operating a NO<sub>x</sub> continuous emissions monitor (CEM) for each stack exhausting kiln emissions. The NO<sub>x</sub> CEMs shall be certified according to procedures contained in 326 IAC 3 and 40 CFR 75 as applicable. IDEM has information that indicates that kiln #1 (EU20) is not in compliance with the requirement to certify the NO<sub>x</sub> CEM as required by this condition. The OAQ will promptly reopen this permit using the provisions of 326 IAC 2-7-9 (Permit Reopening) to include detailed requirements necessary to comply with this rule and a schedule for achieving compliance with such requirements.~~
- ~~(f) In order for kiln #2 to come into compliance with the requirements of 326 IAC 10-1, the Permittee shall install, calibrate, maintain, and operate a NO<sub>x</sub> continuous emissions monitor (CEM) on the stack identified as EP23 for the elevator/dust tank (alkali bypass) identified as EU28 on kiln #2, within 12 months after the date of issuance of this permit. The NO<sub>x</sub> CEMs shall be certified according to procedures contained in 326 IAC 3 and 40 CFR 75 as applicable.~~
- ~~(g) In the event that a nitrogen oxide CEMS fails, the Permittee shall monitor the oxygen content and temperature of the kiln exhaust at least once per hour. If the oxygen content or temperature is outside the range established in the latest compliance stack test, the~~

~~Permittee shall take reasonable response steps in accordance with Section C— Response to Excursions and Exceedances. Failure to take response steps in accordance with Section C— Response to Excursions and Exceedances shall be considered a deviation from this permit.~~

~~D.3.15 NESHAP Monitoring Requirements [40 CFR 63, Subpart LLL][326 IAC 20-27-1]~~

- ~~(a) Pursuant to 40 CFR 63.1350 (Monitoring Requirements), on and after June 14, 2002, which is the compliance date for the National Emission Standards for Hazardous Air Pollutants (NESHAP) from the Portland Cement Manufacturing Industry, the Permittee shall perform the following monitoring requirements:~~
- ~~(1) The Permittee shall have prepared written operations and maintenance plans for kiln #1, kiln #2, clinker cooler #1, and clinker cooler #2. The plans shall include the following information:
    - ~~(A) Procedures for proper operation and maintenance of kiln #1, kiln #2, clinker cooler #1, clinker cooler #2, and all associated air pollution control device(s) in order to meet the emissions limits in Condition D.3.5; and~~
    - ~~(B) Procedures to be used during an inspection of the components of the combustion system of kiln #1 and kiln #2 at least once per year.~~Failure to comply with any provision of the operations and maintenance plan shall be a violation of the standard.~~
  - ~~(2) The Permittee shall conduct an inspection of the components of the combustion system of kiln #1 and kiln #2 at least once per year.~~
  - ~~(3) The Permittee shall continuously monitor opacity of emissions at the outlet of the PM control device for the kiln #1, kiln #2, clinker cooler #1, and clinker cooler #2. The COMs required by Condition D.3.14 shall be used to monitor opacity emissions in accordance with the NESHAP and shall be installed, maintained, calibrated and operated as required by 40 CFR 63, Subpart A and according to 40 CFR 60, Appendix B, PS-1.~~
  - ~~(4) The Permittee shall install, calibrate, maintain, and continuously operate a continuous monitor to record the temperature of the exhaust gases from kiln #1 and kiln #2 at the inlet to, or upstream of the kiln's PM control device.
    - ~~(A) The recorder response range must include zero and 1.5 times either of the average temperatures established according to the requirements in 40 CFR 63.1349(b)(3)(iv).~~
    - ~~(B) The reference method must be a National Institute of Standards and Technology calibrated reference thermocouple-potentiometer system or alternate reference, subject to approval by the Administrator.~~
    - ~~(C) The three-hour rolling average temperature shall be calculated as the average of 180 successive one-minute average temperatures.~~
    - ~~(D) Periods of time when one-minute averages are not available shall be ignored when calculating three-hour rolling averages. When one-minute averages become available, the first one-minute average is added to the previous 179 values to calculate the three-hour rolling average.~~
    - ~~(E) The calibration of all thermocouples and other temperature sensors shall be verified at least once every three months.~~~~

~~(b) Pursuant to 40 CFR 63.1350 (Monitoring Requirements), the Permittee shall prepare a written operations and maintenance plan for the kiln #1 feed system (EU19), the kiln #2 feed system (EU26), the coal (crusher) mill #1 (EU66), the coal (crusher) mill #2 (EU67), the fuel oil-fired air heater for kiln #1 coal mill (EU68), the fuel oil-fired air heater for kiln #2 coal mill (EU69), the kiln #2 coal dust silo (EU149), the kiln #2 coal weigh system (EU150), and the kiln #2 coal handling system (EU151) by June 14, 2002, which is the compliance date for the National Emission Standards for Hazardous Air Pollutants (NESHAP) from the Portland Cement Manufacturing Industry. The plan shall include the following information:~~

- ~~(1) Procedures for proper operation and maintenance of the affected sources and associated air pollution control device(s) in order to meet the emissions limit in Condition D.3.5; and~~
- ~~(2) Procedures to be used to periodically monitor the facilities listed in this section, which are subject to opacity standards under 40 CFR 63.1348. Such procedures must include the following provisions:
  - ~~(A) The Permittee shall conduct a monthly 1-minute visible emissions test of each affected source, in accordance with 40 CFR 60, Appendix A, Method 22. The test must be conducted while the affected source is in operation.~~
  - ~~(B) If no visible emissions are observed in six consecutive monthly tests for any affected source, the Permittee may decrease the frequency of testing from monthly to semi-annually for that affected source. If visible emissions are observed during any semi-annual test, the Permittee shall resume testing of that affected source on a monthly basis and maintain that schedule until no visible emissions are observed in six consecutive monthly tests.~~
  - ~~(C) If no visible emissions are observed during the semi-annual test for any affected source, the Permittee may decrease the frequency of testing from semi-annually to annually for that affected source. If visible emissions are observed during any annual test, the Permittee shall resume testing of that affected source on a monthly basis and maintain that schedule until no visible emissions are observed in six consecutive monthly tests.~~
  - ~~(D) If visible emissions are observed during any Method 22 test, the Permittee must conduct a 6-minute test of opacity in accordance with 40 CFR 60, Appendix A, Method 9. The Method 9 test must begin within one hour of any observation of visible emissions.~~~~
- ~~(3) Corrective actions to be taken when required by paragraph (b).~~

~~Failure to comply with any provision of the operations and maintenance plan shall be a violation of the standard.~~

~~(c) Pursuant to 40 CFR 63.1350 (Monitoring Requirements), the Permittee shall monitor opacity from the raw mills by conducting daily visual emissions observations of the mill sweep and air separator particulate matter control devices (PMCDs), in accordance with the procedures of 40 CFR 60, Appendix A, Method 22. The Method 22 test shall be conducted while the affected source is operating at the representative performance conditions. The duration of the Method 22 test shall be six minutes. If visible emissions are observed during any Method 22 visible emissions test, the Permittee must initiate, within one (1) hour, the corrective actions specified in the site specific operations and maintenance plan developed in accordance with 40 CFR 63.1350(a)(1) and (a)(2); and conduct a follow-up Method 22 test. If visible emissions are observed, then within 24~~

~~hours of the end of the Method 22 test in which the visible emissions were observed, the Permittee must conduct a followup Method 22 test of each stack from which visible emissions were observed during the previous Method 22 test. If visible emissions are observed during the followup Method 22 test, the Permittee must conduct a visual opacity test of each stack from which visible emissions were observed during the followup Method 22 test, in accordance with 40 CFR 60, Appendix A, Method 9. The duration of the Method 9 test shall be thirty (30) minutes.~~

### **~~Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]~~**

#### ~~D.3.16 Transformer Rectifier (T-R) Sets [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]~~

- ~~(a) The ability of the ESP to control particulate emissions shall be monitored once per day, when the unit is in operation, by measuring and recording the number of T-R sets in service and the primary and secondary voltages and the currents of the transformer-rectifier (T-R) sets.~~
- ~~(b) Reasonable response steps shall be taken in accordance with Section C—Response to Excursions and Exceedances whenever the percentage of T-R sets in service falls below 90 percent (90%). T-R set failure resulting in less than 90 percent (90%) availability is not a deviation from this permit. Failure to take response steps in accordance with Section C—Response to Excursions and Exceedances shall be considered a deviation from this permit.~~

#### ~~D.3.17 Opacity Readings~~

~~The ability of each ESP and baghouse to control particulate emissions from the kilns and clinker coolers shall be monitored by continuously measuring and recording the opacity of emissions from the stack exhausts. The opacity shall be determined by the certified continuous opacity monitor required in Condition D.3.14.~~

- ~~(a) Whenever a continuous opacity monitor (COM) is malfunctioning or will be down for calibration, maintenance, or repairs for a period of one (1) hour or more, compliance with the applicable opacity limits shall be demonstrated by the following:
  - ~~(1) Visible emission (VE) notations shall be performed once per hour during daylight operations following the shutdown or malfunction of the primary COM. A trained employee shall record whether emissions are normal or abnormal for the state of operation of the emission unit at the time of the reading.
    - ~~(A) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.~~
    - ~~(B) If abnormal emissions are noted during two consecutive emission notations, the Permittee shall begin Method 9 opacity observations within four hours of the second abnormal notation.~~
    - ~~(C) VE notations may be discontinued once a COM is online or formal Method 9 readings have been implemented.~~~~
  - ~~(2) If a COM is not online within twenty-four (24) hours of shutdown or malfunction of the primary COM, the Permittee shall provide certified opacity reader(s), who may be employees of the Permittee or independent contractors, to self-monitor the emissions from the emission unit stack.
    - ~~(A) Visible emission readings shall be performed in accordance with 40 CFR 60, Appendix A, Method 9, for a minimum of five (5) consecutive six (6) minute averaging periods beginning not more than twenty-four (24) hours after the start of the malfunction or down time.~~~~~~

- ~~(B) — Method 9 opacity readings shall be repeated for a minimum of five (5) consecutive six (6) minute averaging periods at least once every four (4) hours during daylight operations, until such time that a COM is in operation.~~
- ~~(C) — Method 9 readings may be discontinued once a COM is online.~~
- ~~(D) — Any opacity exceedances determined by Method 9 readings shall be reported with the Quarterly Opacity Exceedances Reports.~~
- ~~(3) — If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C — Response to Excursions and Exceedances. Observation of abnormal emissions that do not violate an applicable opacity limit is not a deviation from this permit. Failure to take response steps in accordance with Section C — Response to Excursions and Exceedances shall be considered a deviation from this permit.~~
- ~~(b) — Nothing in this permit shall excuse the Permittee from complying with the requirements to operate a continuous opacity monitoring system pursuant to 326 IAC 3-5 and 40 CFR 63, Subpart LLL.~~

#### D.3.18 Method 9 Opacity Readings and Visible Emissions Notations

The emission units and associated baghouses for which continuous opacity monitors are not used shall comply with the following requirements:

- ~~(a) — Visible emission notations of the baghouse stack exhausts shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.~~
- ~~(b) — For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.~~
- ~~(c) — In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.~~
- ~~(d) — A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.~~
- ~~(e) — If abnormal emissions are present at any baghouse stack for which a COM is not required, the Permittee shall implement the appropriate procedures as set out in Section C — Response to Excursions and Exceedances for such facility. Failure to take response steps in accordance with Section C — Response to Excursions and Exceedances shall be considered a deviation from this permit.~~

#### D.3.19 Baghouse Parametric Monitoring

The Permittee shall record the pressure drop across each baghouse, at least once per day when the associated facility is in operation. When for any one reading, the pressure drop across a baghouse is outside the normal range of 1.0 to 8.0 inches of water or the range established during the most recent stack test, the Permittee shall take reasonable response steps in accordance with Section C — Response to Excursions and Exceedances. A pressure reading that is outside the normal range is not a deviation from this permit. Failure to take response steps in accordance with Section C — Response to Excursions and Exceedances shall be considered a deviation from this permit.

~~The instruments used for determining the pressure shall comply with Section C – Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.~~

#### ~~D.3.20 Broken or Failed Bag Detection~~

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- (a) ~~For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B – Emergency Provisions).~~
- (b) ~~For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the line. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B – Emergency Provisions).~~

#### ~~Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]~~

#### ~~D.3.21 Record Keeping Requirements~~

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- (a) ~~To document compliance with Condition D.3.3, D.3.12 and D.3.13, the Permittee shall maintain records in accordance with (1) through (4) below. Records maintained for (1) through (4) shall be taken on a calendar month average and shall be complete and sufficient to establish compliance with the SO<sub>2</sub> emission limits established in Condition D.3.3.~~
- (1) ~~Calendar dates covered in the compliance determination period;~~
- (2) ~~Actual coal and oil usages since last compliance determination period;~~
- (3) ~~Sulfur content and heat content of both coal and oil used;~~
- (4) ~~Sulfur dioxide emission rates.~~
- (b) ~~Pursuant to 326 IAC 3-7-5(a), the Permittee shall develop a standard operating procedure (SOP) to be followed for sampling, handling, analysis, quality control, quality assurance, and data reporting of the information collected pursuant to 326 IAC 3-7-2 through 326 IAC 3-7-4. In addition, any revision to the SOP shall be submitted to IDEM, OAQ.~~
- (c) ~~To document compliance with Conditions D.3.14 through D.3.19, the Permittee shall maintain records of (1) through (7) below. Records shall be complete and sufficient to establish compliance with the limits established in this section.~~
- (1) ~~Data and results from the most recent stack tests.~~
- (2) ~~All continuous emissions monitoring data.~~
- (3) ~~The results of all baghouse inspections and the type and number of parts replaced.~~
- (4) ~~Visible emission notations required by Conditions D.3.17 and D.3.18.~~
- (5) ~~Method 9 opacity readings for the kilns and clinker coolers whenever required by this permit.~~
- (6) ~~Pressure drop readings required by Condition D.3.19.~~

- ~~(7) — All response steps taken and the outcome for each.~~
- ~~(d) — To document compliance with the NESHAP 40 CFR 63, Subpart LLL, the Permittee shall maintain all records required by 40 CFR 63.1355. These records include the following:~~
- ~~(1) The Permittee shall maintain files of all information (including all reports and notifications) required by 40 CFR 63.1355(a) recorded in a form suitable and readily available for inspection and review as required by 40 CFR 63.10(b)(1).~~
  - ~~(2) The Permittee shall maintain records for each affected source as required by 40 CFR 63.10(b)(2) and (3) including:~~
    - ~~(I) — All documentation supporting initial notifications and notifications of compliance status under 40 CFR 63.9.~~
    - ~~(II) — All records of applicability determination, including supporting analyses.~~
  - ~~(3) — The Permittee shall maintain all records of continuous monitoring system data required by 40 CFR 63.10(c).~~
- ~~(e) — In order to document compliance with Condition D.3.5(a)(4), (5), and (6), the Permittee shall keep records of all times when the raw mill is in operation and all times when the kiln #2 is in operation.~~
- ~~(f) — To document compliance with 40 CFR 60.250, NSPS, Subpart Y, the Permittee shall maintain records of the monitoring device measurements of the temperature of the gas stream at the exit of the thermal dryer on a continuous basis. Records shall be complete and sufficient to establish compliance with the requirements of Subpart Y.~~
- ~~(g) — All records shall be maintained in accordance with Section C – General Record Keeping Requirements, of this permit.~~

#### D.3.22 Reporting Requirements

- ~~(a) A quarterly summary of the information to document compliance with the SO<sub>2</sub> limits specified in Condition D.3.3 shall be submitted to the address listed in Section C – General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or its equivalent, within thirty (30) days after the end of the quarter being reported. These reports submitted by the Permittee do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).~~
- ~~(b) Pursuant to 326 IAC 10-1 and 326 IAC 10-3, CEM performance evaluation reports shall be submitted each calendar quarter.~~
- ~~(c) Pursuant to 326 IAC 10-1, the source shall notify the OAQ at least thirty (30) days prior to the addition or modification of a facility that may result in a potential increase in NO<sub>x</sub> emissions.~~
- ~~(d) Pursuant to 326 IAC 10-1, the source may comply with the reporting requirements of 326 IAC 10-1 by submitting to the OAQ a substitute report. A substitute report is a report that satisfies an applicable state or federal reporting requirement and contains the information required to be submitted by this rule.~~
- ~~(e) A quarterly summary of excess opacity emissions, as defined in 326 IAC 3-5-7, from the continuous monitoring system, shall be submitted to the address listed in Section C – General Reporting Requirements, of this permit, within thirty (30) days after the end of the quarter being reported. The excess opacity summary shall also be submitted in accordance with 40 CFR 63.1354(8) (beginning June 14, 2002).~~

- (f) ~~Beginning June 14, 2002, the Permittee shall submit a continuous monitoring system (CMS) performance report with the excess opacity summaries, in accordance with 40 CFR 63.1354(8) and 40 CFR 63, Subpart A.~~
- (g) ~~Beginning June 14, 2002, the Permittee shall submit a semi-annual summary report which contains the information specified in 40 CFR 63.10(e)(3)(vi), as well as the following:~~
- ~~(1) All exceedances of maximum control device inlet gas temperature limits specified in Condition D.3.5.~~
  - ~~(2) All failures to calibrate thermocouples and other temperature sensors as required under 40 CFR 63.1350(f)(7).~~
  - ~~(3) The results of any combustion system component inspections conducted within the reporting period as required by Condition D.3.15.~~
  - ~~(4) All failures to comply with any provision of the operation and maintenance plan developed in accordance with 40 CFR 63.1350(a).~~

~~If the total continuous monitoring system (CMS) downtime for any CEM or any CMS for the reporting period is ten percent or greater of the total operating time for the reporting period, the Permittee shall submit an excess emissions and CMS performance report along with the summary report.~~

- (h) ~~To document compliance with the NESHAP 40 CFR 63, Subpart LLL, the Permittee shall report the information required by 40 CFR 63.1354, including, but not limited to the following:~~
- ~~(1) The plan required by Condition D.3.15 shall be submitted to IDEM, OAQ and U.S. EPA by June 14, 2002, which is the compliance date for the National Emission Standards for Hazardous Air Pollutants (NESHAP) from the Portland Cement Manufacturing Industry.~~
  - ~~(2) As required by 40 CFR 63.10(d)(2), the Permittee shall report the results of performance tests as part of the notification of compliance status, required in Section C – NESHAP Notification and Reporting Requirements.~~
  - ~~(3) As required by 40 CFR 63.10(d)(3), the Permittee shall report the opacity results from tests required by 40 CFR 63.1349.~~
  - ~~(4) As required by 40 CFR 63.10(d)(5), if actions taken by the Permittee during a startup, shutdown, or malfunction of an affected source (including actions taken to correct a malfunction) are consistent with the procedures specified in the source's startup, shutdown, and malfunction plan specified in 40 CFR 63.6(e)(3), the Permittee shall state such information in a semiannual report. Reports shall only be required if a startup, shutdown, or malfunction occurred during the reporting period. The startup, shutdown, and malfunction report may be submitted simultaneously with the excess emissions and continuous monitoring system performance reports.~~
  - ~~(5) Pursuant to 40 CFR 63.10(d)(5)(ii), any time an action taken by the Permittee during a startup, shutdown, or malfunction (including actions taken to correct a malfunction) is not consistent with the procedures in the startup, shutdown, and malfunction plan, and the source exceeds any applicable emission limitation in the relevant emission standard, the Permittee shall report the actions taken for that event within 2 working days after commencing actions inconsistent with the plan, by telephone call to the OAQ Compliance Section at (317) 233-0178 or~~

~~facsimile (FAX) transmission at (317) 233-6865. The immediate report shall be followed by a letter within 7 working days after the end of the event, certified by the Permittee, explaining the circumstances of the event, the reasons for not following the startup, shutdown, and malfunction plan, and whether any excess emissions and/or parameter monitoring exceedances are believed to have occurred.~~

- ~~(i) In addition to being submitted to the address listed in Section C - General Reporting Requirements, all reports submitted pursuant to 40 CFR 63, Subpart A shall also be submitted to the U.S. EPA at the following address:~~

~~United States Environmental Protection Agency, Region V  
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)  
77 West Jackson Boulevard  
Chicago, Illinois 60604-3590~~

- ~~Pursuant to 40 CFR 63.10(d)(5)(i) and (ii), the reports submitted by the Permittee shall include the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).~~

### **Emission Limitations and Standards [326 IAC 2-7-5(1)]**

#### **D.3.1 Prevention of Significant Deterioration (PSD) Minor Limit for PM/PM<sub>10</sub> [326 IAC 2-2]**

**In order to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable, the following conditions shall apply:**

- (a) The PM emissions from filter 255 controlling the kiln #2 burner pump system (EU151) shall not exceed 0.27 pounds per hour.**
- (b) The PM<sub>10</sub> emissions from filter 255 controlling the kiln #2 burner pump system (EU151) shall not exceed 0.16 pounds per hour.**
- (c) The PM emissions from baghouse 253 controlling the kiln #2 pulverized coal silo (EU149) shall not exceed 3.65 pounds per hour.**
- (d) The PM<sub>10</sub> emissions from baghouse 253 controlling the kiln #2 pulverized coal silo (EU149) shall not exceed 2.19 pounds per hour.**
- (e) The PM emissions from filter 254 controlling the kiln #2 coal weigh system (EU150) shall not exceed 0.68 pounds per hour.**
- (f) The PM<sub>10</sub> emissions from filter 254 controlling the kiln #2 coal weigh system (EU150) shall not exceed 0.41 pounds per hour.**
- (g) The PM emissions from baghouse 228 controlling the elevator for transferring material from the hopper to the flyash tanks shall not exceed 5.68 pounds per hour.**
- (h) The PM<sub>10</sub> emissions from baghouse 228 controlling the elevator for transferring material from the hopper to the flyash tanks shall not exceed 3.40 pounds per hour.**

Therefore, the requirements of 326 IAC 2-2 (PSD) shall not apply.

#### **D.3.2 Particulate Matter (PM) [326 IAC 6.5-2-4]**

**Pursuant to 326 IAC 326 IAC 6.5-2-4, the following conditions shall apply:**

- (a) The combined particulate matter emissions from the kiln #2 system which includes kiln #2 equipped with an alkali bypass (EU27), the fuel oil-fired air preheater for kiln**

#2 (EU69), and clinker cooler #2 (EU29), shall not exceed 265.20 tons per year and 0.4 pound per ton of kiln feed (dry basis).

- (b) The combined particulate matter emissions from the kiln #1 system, which includes kiln #1 (EU20), the fuel oil-fired air preheater (EU68), and clinker cooler #1 (EU22), shall not exceed 251.20 tons per year and 0.58 pound per ton of kiln feed (dry basis).

#### **D.3.3 Particulate Matter (PM) [326 IAC 6.5-1-2] [326 IAC 2-7-6(3)] [326 IAC 2-7-15]**

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Pursuant to 326 IAC 6.5-1-2, particulate emissions from each of the following facilities shall not exceed 0.03 grains per dry standard cubic foot (dscf) of exhaust air.

- (a) Two (2) pneumatic truck unloading stations to fly ash tanks (EU10 and EU11), identified as EU107 and EU108.
- (b) One (1) silo for flyash, identified as EU11.
- (c) One (1) silo for iron ore, identified as EU12.
- (d) One (1) oil-fired Todd furnace used for heating the Loesche raw mill, identified as EU13.
- (e) Feed silo #1 for kiln feed, identified as EU16.
- (f) One (1) calibration system, identified as EU18.
- (g) Coal (crusher) mill #1, identified as EU66.
- (h) One (1) feed system for kiln #1, identified as EU19.
- (i) One (1) feed system for kiln #2, identified as EU26.

#### **D.3.4 Particulate Emissions [326 IAC 6-3-2]**

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Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), particulate emissions from the following operations shall each not exceed the pound per hour limit E when operating at the maximum process weight rate P.

- (a) One (1) silo for flyash, identified as EU10.
- (b) One (1) C-15 covered conveyor system, identified as EU09.
- (c) One (1) Loesche raw mill, identified as EU14.
- (d) One (1) sidewinder (pneumatic transfer pump), identified as EU15.
- (e) Blend silo #2 for blending kiln feed, identified as EU17.
- (f) Coal (crusher) mill #2, identified as EU67.
- (g) Kiln #2 pulverized coal silo, identified as EU149.
- (h) Kiln #2 coal weigh system, identified as EU150.
- (i) Kiln #2 burner pump system, identified as EU151.

The pounds per hour limitations (e) shall be calculated with the following equations:

Interpolation of the data for the process weight rates up to (and including) 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 4.1 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

Interpolation and extrapolation of the data for the process weight rates in excess of 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 55.0 P^{0.11} - 40 \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

When the process weight rate exceeds 200 tons per hour, the maximum allowable emission may exceed the pound per hour limit calculated using the above-referenced equation, provided the concentration of particulate matter in the discharge gases to the atmosphere is less than 0.10 pounds per on thousand (1,000) pounds of gases.

**D.3.5 Sulfur Dioxide (SO<sub>2</sub>) [326 IAC 7-1.1-2] [326 IAC 7-2-1]**

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- (a) Pursuant to 326 IAC 7-1.1-2 (SO<sub>2</sub> Emissions Limitations) the SO<sub>2</sub> emissions from the combustion of coal or the simultaneous combustion of coal and oil, in kiln #1 and kiln #2 shall not exceed six (6.0) pounds per MMBtu heat input. Pursuant to 326 IAC 7-2-1, compliance shall be determined on a calendar month average.
- (b) Pursuant to 326 IAC 7-1.1-2 (SO<sub>2</sub> Emissions Limitations) the SO<sub>2</sub> emissions from the combustion of distillate oil only from each of the kilns shall not exceed five-tenths (0.5) pounds per MMBtu heat input. Pursuant to 326 IAC 7-2-1, compliance shall be determined on a calendar month average.
- (c) Pursuant to 326 IAC 7-1.1-2 (SO<sub>2</sub> Emissions Limitations) the SO<sub>2</sub> emissions from the combustion of residual oil only from each of the kilns shall not exceed one and six-tenths (1.6) pounds per MMBtu heat input. Pursuant to 326 IAC 7-2-1, compliance shall be determined on a calendar month average.
- (d) Pursuant to 326 IAC 7-1.1-2 (SO<sub>2</sub> Emissions Limitations) the SO<sub>2</sub> emissions from each of the fuel oil-fired preheaters (EU68 and EU69) and the Todd furnace (EU13) shall not exceed 0.5 pound per MMBtu heat input when combusting distillate oil. Pursuant to 326 IAC 7-2-1, compliance shall be determined on a calendar month average.

**D.3.6 NO<sub>x</sub> Emissions [326 IAC 10-1] [326 IAC 10-3]**

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- (a) Pursuant to 326 IAC 10-1-4, NO<sub>x</sub> emissions from the long dry rotary cement kiln #1 (EU20) shall not exceed ten and eight-tenths (10.8) pounds per ton of clinker produced on an operating day basis and six (6.0) pounds per ton of clinker produced on a thirty (30) day rolling average.
- (b) The following requirements apply to the dry preheater rotary cement kiln #2 (EU27):
  - (1) Pursuant to 326 IAC 10-1-4, NO<sub>x</sub> emissions shall not exceed five and nine-tenths (5.9) pounds per ton of clinker produced on an operating day basis and four and four-tenths (4.4) pounds per ton clinker produced on a thirty (30) day rolling average basis.

Compliance with the NO<sub>x</sub> limit in Condition D.3.7 shall satisfy the NO<sub>x</sub> limit of four and four-tenths (4.4) pounds per ton clinker produced on a thirty (30) day rolling average basis.
  - (2) Pursuant to 326 IAC 10-3-3, after May 31, 2004 and during the ozone control period of each year, the Permittee shall comply with one (1) of the following:
    - (A) The kiln shall operate with Low-NO<sub>x</sub> burners; or
    - (B) NO<sub>x</sub> emissions shall not exceed 3.8 pounds per ton of clinker produced, averaged over the ozone control period.

**D.3.7 Nitrogen Oxide (NO<sub>x</sub>) Emissions Limit [USEPA Consent Decree]**

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Pursuant to the Consent Decree in United States v. Essroc Cement Corporation No. 2:11-cv-01650-DSC, signed on February 16, 2012 and referenced in the Federal Register as No. 2:11-cv-0650-DSC, the NO<sub>x</sub> emissions from Kiln #2 and associated preheater unit, including the alkali bypass, identified as EU27 shall not exceed 2.10 pounds per ton of clinker produced, based on a 30-day rolling average.

#### **D.3.8 NO<sub>x</sub> Continuous Emissions Monitoring (CEMS) Downtime**

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Whenever the NO<sub>x</sub> continuous emission monitoring system is malfunctioning or down for repairs or adjustments, the NO<sub>x</sub> Selective Non-Catalytic Reduction (SNCR) shall be subject to the following limits:

- (a) Ammonia injection rate into the Kiln #2 preheater tower shall not exceed 4 gallon per minute (gpm).
- (b) After completion of the compliance stack testing, ammonia injection into the Kiln #2 preheater tower shall not exceed the rate established during the valid compliance stack test in D.3.10(b) that corresponds with zero ammonia slip.

#### **D.3.9 Preventive Maintenance Plan [326 IAC 2-7-5(12)] [326 IAC 10-3]**

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A Preventive Maintenance Plan is required for all of the control devices listed in this section, and for the kilns and clinker coolers. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

### **Compliance Determination Requirements**

#### **D.3.10 Testing Requirements [326 IAC 20-27-1][326 IAC 2-7-6(1)(6)] [326 IAC 2-1.1-11]**

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- (a) Within 2.5 years after the most recent valid compliance demonstration, the Permittee shall test kiln #1 (EU20), kiln #2 equipped with alkali bypass (EU27) and associated preheater, clinker cooler #1 (EU22), clinker cooler #2 (EU29), kiln feed system #1 (EU19), and kiln feed system #2 (EU26) for PM emissions in order to demonstrate compliance with Condition D.3.2 - Particulate Matter (PM) (326 IAC 6.5-2-4) and Condition D.3.3 - Particulate Matter (PM) (326 IAC 6.5-1-2), utilizing methods approved by the commissioner. Testing shall be conducted at least once every 2.5 years from the date of the most recent valid compliance demonstration and shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition. All associated facilities exhausting to a single stack must all be operating when determining compliance with the limit.
- (b) Within sixty (60) days after achieving maximum capacity but no later than one hundred and eighty (180) days after startup of the NO<sub>x</sub> SNCR, the Permittee shall perform ammonia stack testing to establish the ammonia injection rate into the Kiln #2 preheater tower, utilizing methods approved by the commissioner. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition. No repeat testing is required for this parameter.

#### **D.3.11 NO<sub>x</sub> Selective Non-Catalytic Reduction (SNCR) [USEPA Consent Decree]**

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Pursuant to Consent Decree in United States v. Essroc Cement Corporation No. 2:11-cv-01650-DSC, signed on February 16, 2012 and referenced in the Federal Register as No. 2:11-cv-0650-DSC, the Selective Non-Catalytic Reduction (SNCR) systems shall be operated at all times of Kiln operation, consistent with the technological limitations, manufacturer's specifications and good engineering and maintenance practices for such control technology and the Kiln.

#### **D.3.12 Particulate Matter (PM) Control**

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In order to comply with Conditions D.3.1 - Prevention of Significant Deterioration (PSD) Minor Limit, D.3.2 - Particulate Matter (PM), and D.3.3 - Particulate Matter (PM), the following conditions shall apply:

- (a) The baghouse 209 for PM control shall be in operation at all times and control emissions from the kiln #1 feed system when the kiln #1 feed system is in operation.
- (b) The baghouse 221 for PM control shall be in operation at all times and control emissions from the kiln #1 when the kiln #1 is in operation.
- (c) The baghouse 231 for PM control shall be in operation at all times and control emissions from the kiln #2 feed system when the kiln #2 feed system is in operation.
- (d) Baghouse 15 and baghouse 16, for PM control, shall be in operation at all times and control emissions from the kiln #2 and raw mill when the kiln #2 or the raw mill is in operation.
- (e) The baghouse 222 for PM control shall be in operation at all times and control emissions from the clinker cooler #1 when the clinker cooler #1 is in operation.
- (f) The baghouse 17 for PM control shall be in operation at all times and control emissions from the clinker cooler #2 when the clinker cooler #2 is in operation.
- (g) Each baghouse or filter controlling any of the coal handling, milling, and storage facilities shall be in operation at all times when the associated facility is in operation.
- (h) In the event that bag failure is observed in a multi-compartment bagfilter, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

**D.3.13 Sulfur Dioxide Emissions and Sulfur Content [326 IAC 2-7-5(A)] [326 IAC 2-7-6]**

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Pursuant to 326 IAC 7-2, compliance with the limit in Condition D.3.5(a) - Sulfur Dioxide (SO<sub>2</sub>) shall be determined utilizing one of the following methods:

- (a) Coal sampling and analysis shall be performed using one of the following procedures:
  - (1) Minimum Coal Sampling Requirements and Analysis Methods [326 IAC 3-7-2(b)(3)]:
    - (A) The coal sample acquisition point shall be at a location where representative samples of the total coal flow to be combusted by the facility or facilities may be obtained. A single as-bunkered or as-burned sampling station may be used to represent the coal to be combusted by multiple facilities using the same stockpile feed system.
    - (B) Coal shall be sampled at least three (3) times per day and at least one (1) time per eight (8) hour period unless no coal is bunkered during the preceding eight (8) hour period.
    - (C) Minimum sample size shall be five hundred (500) grams.
    - (D) Samples shall be composited and analyzed at the end of each calendar month.

- (E) Preparation of the coal sample, heat content analysis, and sulfur content analysis shall be determined pursuant to 326 IAC 3-7-2(c), (d), and (e).
- (2) Sample and analyze the coal pursuant to 326 IAC 3-7-2(a). Preparation of the coal sample heat content analysis, and sulfur content analysis shall be determined pursuant to 326 IAC 3-7-2(c), (d), and (e).
- (3) Pursuant to 326 IAC 3-7-2(f), in lieu of the requirements of 326 IAC 3-7-2(d) the source may elect to determine the heat content of coal samples in accordance with the procedures specified in ASTM D5865.
- (4) Sample and analyze the coal pursuant to 326 IAC 3-7-3.
- (b) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from the kilns, in accordance with 326 IAC 3-6, utilizing the procedures in 40 CFR 60, Appendix A, Method 6, 6A, 6C, and 8. [326 IAC 7-2-1(d)]
- (c) Upon written notification to IDEM by a facility owner or operator, continuous emission monitoring data collected and reported pursuant to 326 IAC 3-5-1 may be used as the means for determining compliance with the emission limitations in 326 IAC 7-2. Upon such notification, the other requirements of 326 IAC 7-2 shall not apply. [326 IAC 7-2-1(g)]

A determination of noncompliance pursuant to any of the methods specified in (a) or (b) above shall not be refuted by evidence of compliance pursuant to the other method.

#### **D.3.14 Sulfur Dioxide Emissions and Sulfur Content [326 IAC 2-7-5(A)] [326 IAC 2-7-6]**

Pursuant to 326 IAC 7-2, compliance with the limit in Condition D.3.5 - Sulfur Dioxide (SO<sub>2</sub>) shall be determined utilizing one of the following methods:

- (a) Pursuant to 326 IAC 3-7-4, the Permittee shall determine that the sulfur dioxide emissions by:
  - (1) Providing vendor analysis of fuel delivered, if accompanied by a vendor certification, or;
  - (2) Analyzing the oil sample to determine the sulfur content of the oil via the procedures in 40 CFR 60, Appendix A, Method 19.
    - (A) Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and
    - (B) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling.
- (b) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from each of the kilns and heaters, using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.

A determination of noncompliance pursuant to any of the methods specified in (a) or (b) above shall not be refuted by evidence of compliance pursuant to the other method.

#### **D.3.15 Continuous Emissions Monitoring [326 IAC 3-5] [326 IAC 2-7-6(1),(6)] [326 IAC 10-1] [326 IAC 10-3]**

- (a) Pursuant to 326 IAC 3-5 (Continuous Monitoring of Emissions) continuous opacity monitoring systems (COMS) for kiln #1 (EU20), kiln #2 (EU27), clinker cooler #1

**(EU22), and clinker cooler #2 (EU29) shall be installed, calibrated, maintained, and operated for measuring opacity, which meet all applicable performance specifications of 326 IAC 3-5-2.**

- (b) Pursuant to Consent Decree in United States v. Essroc Cement Corporation No. 2:11-cv-01650-DSC, signed on February 16, 2012 and referenced in the Federal Register as No. 2:11-cv-0650-DSC, NOx Continuous Emissions Monitoring System (CEMS) shall be installed, calibrated, maintained, and operated to demonstrate compliance with the NOx emission limit in Condition D.3.7 for Kiln #2 and associated preheater unit, including the alkali bypass, identified as EU027, in accordance with 326 IAC 3-5.**
- (c) Pursuant to 326 IAC 10-1-6 (Emissions Monitoring) and 326 IAC 10-3 (Monitoring and Testing Requirements), NOx CEMS shall be installed, calibrated, maintained, and operated to demonstrate compliance with the NOx emission limits in Condition D.3.6 for kiln #1 (EU20) and kiln #2 (EU27), in accordance with 326 IAC 3-5.**
- (d) All continuous emission monitoring systems (CEMS) are subject to monitor system certification requirements pursuant to 326 IAC 3-5-3.**
- (e) Nothing in this permit shall excuse the Permittee from complying with the requirements to operate a continuous emission monitoring system pursuant to 326 IAC 3-5, 326 IAC 10-1, 326 IAC 10-3, and 40 CFR 63, Subpart LLL.**

#### **Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]**

##### **D.3.16 Visible Emissions Notations [40 CFR 64]**

**The emission units and associated baghouses for which continuous opacity monitors are not used shall comply with the following requirements:**

- (a) Visible emission notations of the baghouse stack exhausts shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.**
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, at least eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.**
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.**
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.**
- (e) If abnormal emissions are observed, the Permittee shall take reasonable response. Section C – Response to Excursions and Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.**

**Compliance with these monitoring requirements satisfies, in part, CAM for the following units: pneumatic truck unloading stations to fly ash tanks (EU107 and EU108), silos for flyash (EU10 and EU11), silo for iron ore (EU12), C-15 covered conveyor system (EU09), Loesche raw mill (EU14), sidewinder (pneumatic transfer pump) (EU15), feed silo #1 for kiln feed (EU16), blend silo #2 (EU17), calibration system (EU18), coal (crusher) mill #1 (U66), coal (crusher) mill #2 (EU67), fuel oil-fired air preheater for kiln #1 coal mill (EU68), fuel oil-fired air preheater for kiln #2 coal mill (EU69), kiln #2 pulverized coal silo (EU149),**

kiln #2 coal weigh system (EU150), kiln #2 burner pump system (EU151), feed system for kiln #1 (EU19), rotary cement kiln #1 (EU20), feed system for kiln #2 (EU26), kiln #2 (EU27), clinker cooler #1 (EU22), and clinker cooler #2 (EU29).

#### **D.3.17 Baghouse Parametric Monitoring**

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The emission units and associated baghouses for which continuous opacity monitors are not used shall comply with the following requirements:

- (a) The Permittee shall record the pressure drop across each baghouse, used in conjunction with the facilities listed in this section, at least once per day when the associated facility is in operation. When for any one reading, the pressure drop across a baghouse is outside the normal range, the Permittee shall take reasonable response steps. The normal range for these units is 1.0 to 8.0 inches of water unless a different upper-bound or lower-bound value for this range is determined during the latest stack test. Section C – Response to Excursions and Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the normal range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.
- (b) The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated or replaced at least once every six (6) months or other time period specified by the manufacturer. The Permittee shall maintain records of the manufacturer specifications, if used.

Compliance with these monitoring requirements satisfies, in part, CAM for the following units: pneumatic truck unloading stations to fly ash tanks (EU107 and EU108), silos for flyash (EU10 and EU11), silo for iron ore (EU12), C-15 covered conveyor system (EU09), Loesche raw mill (EU14), sidewinder (pneumatic transfer pump) (EU15), feed silo #1 for kiln feed (EU16), blend silo #2 (EU17), calibration system (EU18), coal (crusher) mill #1 (U66), coal (crusher) mill #2 (EU67), fuel oil-fired air preheater for kiln #1 coal mill (EU68), fuel oil-fired air preheater for kiln #2 coal mill (EU69), kiln #2 pulverized coal silo (EU149), kiln #2 coal weigh system (EU150), kiln #2 burner pump system (EU151), feed system for kiln #1 (EU19), rotary cement kiln #1 (EU20), feed system for kiln #2 (EU26), kiln #2 (EU27), clinker cooler #1 (EU22), and clinker cooler #2 (EU29).

#### **D.3.18 Broken or Failed Bag Detection**

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- (a) For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the line. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

#### **D.3.19 NO<sub>x</sub> Continuous Emissions Monitoring (CEMS) Downtime [326 IAC 2-7-6] [326 IAC 2-7-5(3)]**

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Whenever the NO<sub>x</sub> continuous emission monitoring system is malfunctioning or down for repairs or adjustments, the following method shall be used to provide information related to Kiln #2 NO<sub>x</sub> emissions:

**Monitoring of the SNCR operating parameters for the ammonia reductant shall be implemented as follows:**

- (a) The Permittee shall record the ammonia injection rate into the Kiln #2 Preheater tower continuously until the CEMS is brought online and functioning properly. When for any 1- hour readings, the ammonia injection rate exceeds the injection rate established during the compliance stack testing, the Permittee shall take reasonable response steps. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.**
- (b) The instrument used for determining the ammonia flow rate shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated or replaced at least once every six (6) months.**

**D.3.20 Maintenance of Continuous Opacity Monitoring Equipment [326 IAC 2-7-5(3)(A)(iii)]**

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- (a) The Permittee shall install, calibrate, maintain, and operate all necessary continuous opacity monitoring systems (COMS) and related equipment.**
- (b) All COMS shall meet the performance specifications of 40 CFR 60, Appendix B, Performance Specification No. 1, and are subject to monitor system certification requirements pursuant to 326 IAC 3-5.**
- (c) In the event that a breakdown of a COMS occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem.**
- (d) Whenever a COMS is malfunctioning or is down for maintenance or repairs for a period of twenty-four (24) hours or more and a backup COMS is not online within twenty-four (24) hours of shutdown or malfunction of the primary COMS, the Permittee shall provide a certified opacity reader, who may be an employee of the Permittee or an independent contractor, to self-monitor the emissions from the emission unit stack.**
  - (1) Visible emission readings shall be performed in accordance with 40 CFR 60, Appendix A, Method 9, for a minimum of five (5) consecutive six (6) minute averaging periods beginning not more than twenty-four (24) hours after the start of the malfunction or down time.**
  - (2) Method 9 opacity readings shall be repeated for a minimum of five (5) consecutive six (6) minute averaging periods at least twice per day during daylight operations, with at least four (4) hours between each set of readings, until a COMS is online.**
  - (3) Method 9 readings may be discontinued once a COMS is online.**
  - (4) Any opacity exceedances determined by Method 9 readings shall be reported with the Quarterly Opacity Exceedances Reports.**
- (e) Nothing in this permit shall excuse the Permittee from complying with the requirements to operate a continuous opacity monitoring system pursuant to 326 IAC 3-5, (and 40 CFR 60 and/or 40 CFR 63).**

## **Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]**

### **D.3.21 Record Keeping Requirements**

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- (a) To document the compliance status with Condition D.3.5 - Sulfur Dioxide (SO<sub>2</sub>), D.3.13 - Sulfur Dioxide Emissions and Sulfur Content and D.3.14 - Sulfur Dioxide Emissions and Sulfur Content, the Permittee shall maintain records in accordance with (1) through (4) below. Records maintained for (1) through (4) shall be complete and sufficient to determine compliance with the SO<sub>2</sub> emission limits established in Condition D.3.5 - Sulfur Dioxide (SO<sub>2</sub>).
- (1) Calendar dates covered in the compliance determination period;
  - (2) Actual coal and oil usages since last compliance determination period;
  - (3) Sulfur content and heat content of both coal and oil used;
  - (4) Sulfur dioxide emission rates.
- (b) Pursuant to 326 IAC 3-7-5(a), the Permittee shall develop a standard operating procedure (SOP) to be followed for sampling, handling, analysis, quality control, quality assurance, and data reporting of the information collected pursuant to 326 IAC 3-7-2 through 326 IAC 3-7-4. In addition, any revision to the SOP shall be submitted to IDEM, OAQ.
- (c) To document the compliance status with Section C - Opacity and Condition D.3.15 - Continuous Emissions Monitoring, the Permittee shall maintain records of (1) through (4) below. Records shall be complete and sufficient to determine compliance with the limits established in this section.
- (1) Data and results from the most recent stack tests.
  - (2) All continuous emissions opacity monitoring data pursuant to 326 IAC 3-5.
  - (3) The results of all Method 9 opacity readings for the kilns and clinker coolers visible emission readings taken during any periods of COMS downtime.
  - (4) A log of plant operations, including emission unit or monitoring system downtime with the following information:
    - (A) Date of emissions unit or monitoring system downtime.
    - (B) Time of commencement and completion of each downtime.
    - (C) Reason for each downtime.
    - (D) Nature of system repairs and adjustments
- (d) To document compliance with conditions D.3.19, the Permittee shall maintain records of the ammonia injection rate.
- (e) To document the compliance status with Condition D.3.16 - Visible Emissions, the Permittee shall maintain daily records of the visible emission notations of each baghouse stack exhaust. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of a visible emission notation (e.g. the process did not operate that day).
- (f) To document the compliance status with Condition D.3.17 - Baghouse Parametric Monitoring, the Permittee shall maintain daily records of the pressure drop across each baghouse. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g. the process did not operate that day).

- (g) **Section C - General Record Keeping Requirements of this permit contains the Permittee's obligation with regard to the records required by this condition.**

#### **D.3.22 Reporting Requirements**

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- (a) **A quarterly summary of the information to document the compliance status with the SO<sub>2</sub> limits specified in Condition D.3.5 - Sulfur Dioxide (SO<sub>2</sub>) shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition.**
- (b) **Pursuant to 326 IAC 10-1 and 326 IAC 10-3, CEM performance evaluation reports shall be submitted each calendar quarter.**
- (c) **Pursuant to 326 IAC 10-1, the source shall notify the OAQ at least thirty (30) days prior to the addition or modification of a facility that may result in a potential increase in NO<sub>x</sub> emissions.**
- (d) **Pursuant to 326 IAC 10-1, the source may comply with the reporting requirements of 326 IAC 10-1 by submitting to the OAQ a substitute report. A substitute report is a report that satisfies an applicable state or federal reporting requirement and contains the information required to be submitted by this rule.**
- (e) **A quarterly summary of excess NO<sub>x</sub> emissions as defined in 326 IAC 3-5-7 and 40 CFR Part 60.7) from the continuous emissions monitoring system, shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition.**
- (f) **A quarterly summary of excess opacity emissions, as defined in 326 IAC 3-5-7 and 40 CFR Part 60.7, from the continuous monitoring system, shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition.**
- (g) **A monthly summary of the thirty (30) day rolling average of the CEMS NO<sub>x</sub> emissions reading for Kiln #2 and associated preheater unit, including the alkali bypass, identified as EU027 shall be submitted not later than thirty (30) days after the end of each half calendar year being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition.**

**The reports submitted by the Permittee do require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).**

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF AIR QUALITY  
 COMPLIANCE AND ENFORCEMENT BRANCH**

100 North Senate Avenue  
 MC 61-53 IGCN 1003  
 Indianapolis, Indiana 46204-2251  
 Phone: 317-233-0178  
 Fax: 317-233-6865

**PART 70 OPERATING PERMIT  
 Semi-Annual report**

**Source Name:** ESSROC Cement Corporation  
**Source Address:** Highway 31, Speed, Indiana 47172  
**Part 70 Permit No.:** T019-6016-00008  
**Facility:** Kiln #2 and associated preheater, including the alkali bypass, identified as EU027  
**USEPA Consent Decree Limit:** 2.10 pounds of NOx per ton of Clinker produced, based on a 30-day rolling average.

**Month:** \_\_\_\_\_ **Year:** \_\_\_\_\_

Day	NOx Emissions (lb/ton)	Day	NOx Emissions (lb/ton)
1		17	
2		18	
3		19	
4		20	
5		21	
6		22	
7		23	
8		24	
9		25	
10		26	
11		27	
12		28	
13		29	
14		30	
15		<b>Total</b>	
16		<b>Average NOx Emissions (Total/30)</b>	

- No deviation occurred in this month.
- Deviation/s occurred in this month.  
 Deviation has been reported on:

**Submitted by:**  
**Title/Position:**  
**Signature:**  
**Date:**  
**Phone:**

### Conclusion and Recommendation

The installation and operation of a SNCR NO<sub>x</sub> control system shall be subject to the conditions of the attached proposed Part 70 Significant Permit Modification No. 019-31269-00008. The staff recommends to the Commissioner that this Part 70 Significant Permit Modification be approved.

### IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Aida DeGuzman at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCM 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) (233-4972) or toll free at 1-800-451-6027 extension (3-4972).
- (b) A copy of the findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: [www.idem.in.gov](http://www.idem.in.gov)

# What if you are not satisfied with this decision and you want to file an appeal?

## **Who may file an appeal?**

The decision described in the accompanying Notice of Decision may be administratively appealed. Filing an appeal is formally known as filing a “Petition for Administrative Review” to request an “administrative hearing.”

If you object to this decision issued by the Indiana Department of Environmental Management (IDEM) and are: 1) the person to whom the decision was directed, 2) a party specified by law as being eligible to appeal, or 3) aggrieved or adversely affected by the decision, you are entitled to file an appeal. (An aggrieved or adversely affected person is one who would be considered by the court to be negatively impacted by the decision. If you file an appeal because you feel that you are aggrieved, it will be up to you to demonstrate in your appeal how you are directly impacted in a negative way by the decision).

The Indiana Office of Environmental Adjudication (OEA) was established by state law – see Indiana Code (IC) 4-21.5-7 – and is a separate state agency independent of IDEM. The jurisdiction of the OEA is limited to the review of environmental pollution concerns or any alleged technical or legal deficiencies associated with the IDEM decision making process. Once your request has been received by OEA, your appeal may be considered by an Environmental Law Judge.

## **What is required of persons filing an appeal?**

Filing an appeal is a legal proceeding, so it is suggested that you consult with an attorney. Your request for an appeal must include your name and address and identify your interest in the decision (Or, if you are representing someone else, his or her name and address and their interest in the decision). In addition, please include a photocopy of the accompanying Notice of Decision or list the permit number and name of the applicant, or responsible party, in your letter.

Before a hearing is granted, you must identify the reason for the appeal request and the issues proposed for consideration at the hearing. You also must identify the permit terms and conditions that, in your judgment, would appropriately satisfy the requirements of law with respect to the IDEM decision being appealed. That is, you must suggest an alternative to the language in the permit (or other order, or decision) being appealed, and your suggested changes must be consistent with all applicable laws (See Indiana Code 13-15-6-2) and rules (See Title 315 of the Indiana Administrative Code, or 315 IAC).

The effective date of this agency action is stated on the accompanying Notice of Decision (or other IDEM decision notice). If you file a “Petition for Administrative Review” (appeal), you may wish to specifically request that the action be “stayed” (temporarily halted) because most appeals do not allow for an automatic “stay.” If, after an evidentiary hearing, a “stay” is granted, the IDEM-approved action may be halted altogether, or only allowed to continue in part, until a final decision has been made regarding the appeal. However, if the action is not “stayed” the IDEM-approved activity will be allowed to continue during the appeal process.

*(See reverse side)*

### **Where can you file an appeal?**

If you wish to file an appeal, you must do so in writing. There are no standard forms to fill out and submit, so you must state your case in a letter (called a petition for administrative review) to the Indiana Office of Environmental Adjudication (OEA). Do not send the original copy of your appeal request to IDEM. Instead, send or deliver your letter to:

The Indiana Office of Environmental Adjudication  
100 North Senate Ave.  
Indiana Government Center North  
Room N501E  
Indianapolis, IN 46204

If you file an appeal, also please send a copy of your appeal letter to the IDEM contact person identified in the Notice of Decision, and to the applicant (person receiving an IDEM permit, or other approval).

Your appeal (petition for administrative review) must be received by the Office of Environmental Adjudication in a timely manner. Different types of permit approvals have different deadlines for filing an appeal. The accompanying Notice of Decision (NOD) explains how to determine the due date for filing an appeal for this particular permit decision. To ensure that you meet this filing requirement, your appeal request must be:

- 1) Delivered in person to the OEA by the close-of-business on the due date. (If the due date falls on a day when the Office of Environmental Adjudication (OEA) is closed for the weekend or for a state holiday, then your petition will be accepted on the next business day on which OEA is open.); or
- 2) Given to a private carrier who will deliver it to the OEA on your behalf, (and from whom you must obtain a receipt dated on or before the due date); or
- 3) For those appeal requests sent by U.S. Mail, your letter must be postmarked by no later than midnight of the due date; or
- 4) Faxed to the OEA at 317/233-9372 before the close-of-business of the due date, provided that the original signed "Petition for Administrative Review" is also sent, or delivered, to the OEA in a timely manner.

### **What are the costs associated with filing an appeal?**

The OEA does not charge a fee for filing documents for an administrative review or for the use of its hearing facilities. However, OEA does charge a fifteen cent (\$.15) per page fee for copies of any documents you may request. Another cost that could be associated with your appeal would be for attorney's fees. Although you have the option to act as your own attorney, the administrative review and associated hearing are complex legal proceedings; therefore, you should consider whether your interests would be better represented by an experienced attorney.

### **What can you expect from the Office of Environmental Adjudication (OEA) after you file for an appeal?**

The OEA will provide you with notice of any prehearing conferences, preliminary hearings, hearings, "stays," or orders disposing of the review of this decision. In addition, you may contact the OEA by phone at 317/232-8591 with any scheduling questions. However, technical questions should be directed to IDEM at the number indicated on the Notice of Decision.

Do not expect to discuss details of your case with the OEA other than in a formal setting such as a prehearing conference, a formal hearing, or a settlement conference. The OEA is not allowed to discuss a case without all sides being present. All parties to the proceeding are expected to appear at the initial prehearing conference.



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

*Mitchell E. Daniels Jr.*  
**Governor**

*Thomas W. Easterly*  
**Commissioner**

100 North Senate Avenue  
Indianapolis, Indiana 46204  
(317) 232-8603  
Toll Free (800) 451-6027  
[www.idem.IN.gov](http://www.idem.IN.gov)

## SENT VIA U.S. MAIL: CONFIRMED DELIVERY AND SIGNATURE REQUESTED

TO: David Hitt  
ESSROC Cement Corporation  
301 HWY 31  
Speed, IN 47172

DATE: August 9, 2012

FROM: Matt Stuckey, Branch Chief  
Permits Branch  
Office of Air Quality

SUBJECT: Final Decision  
Significant Permit Modification  
019-31269-00008

Enclosed is the final decision and supporting materials for the air permit application referenced above. Please note that this packet contains the original, signed, permit documents.

The final decision is being sent to you because our records indicate that you are the contact person for this application. However, if you are not the appropriate person within your company to receive this document, please forward it to the correct person.

A copy of the final decision and supporting materials has also been sent via standard mail to:  
Mike McHugh (Plant Manager)  
Phillip & Kathy Combs  
OAQ Permits Branch Interested Parties List

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178, or toll-free at 1-800-451-6027 (ext. 3-0178), and ask to speak to the permit reviewer who prepared the permit. If you think you have received this document in error, please contact Joanne Smiddie-Brush of my staff at 1-800-451-6027 (ext 3-0185), or via e-mail at [jbrush@idem.IN.gov](mailto:jbrush@idem.IN.gov).

Final Applicant Cover letter.dot 11/30/07



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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100 North Senate Avenue  
Indianapolis, Indiana 46204  
(317) 232-8603  
Toll Free (800) 451-6027  
[www.idem.IN.gov](http://www.idem.IN.gov)

August 9, 2012

TO: Sellersburg Public Library

From: Matthew Stuckey, Branch Chief  
Permits Branch  
Office of Air Quality

Subject: **Important Information for Display Regarding a Final Determination**

**Applicant Name: ESSROC Cement Corporation**  
**Permit Number: 019-31269-00008**

You previously received information to make available to the public during the public comment period of a draft permit. Enclosed is a copy of the final decision and supporting materials for the same project. Please place the enclosed information along with the information you previously received. To ensure that your patrons have ample opportunity to review the enclosed permit, **we ask that you retain this document for at least 60 days.**

The applicant is responsible for placing a copy of the application in your library. If the permit application is not on file, or if you have any questions concerning this public review process, please contact Joanne Smiddie-Brush, OAQ Permits Administration Section at 1-800-451-6027, extension 3-0185.

Enclosures  
Final Library.dot 11/30/07

# Mail Code 61-53

IDEM Staff	MIDENNEY 8/9/2012 ESSROC Cement Corp 019-31269-00008 (final)		Type of Mail:  <b>CERTIFICATE OF MAILING ONLY</b>	AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender		Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204		

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee
											Remarks
1		David Hitt ESSROC Cement Corp 301 Hwy 31 Speed IN 47172-1305 (Source CAATS) via confirm delivery									
2		Mike NcHugh Plant Mgr ESSROC Cement Corp 301 Hwy 31 Speed IN 47172-1305 (RO CAATS)									
3		Mr. Bruce Rieger 4809 Bud Prather Road Sellersburg IN 47172 (Affected Party)									
4		Mr. Gordon K. Trainor 22417 Martinssburg Road Borden IN 47106 (Affected Party)									
5		Mr. Tim Lynch 315 Martin St Borden IN 47106 (Affected Party)									
6		Ms. Rhonda England 17213 Persimmon Run Rd Borden IN 47106-8604 (Affected Party)									
7		Rita Goedelher or Sadie Sansone 9402 New Market Road Charlestown IN 47111 (Affected Party)									
8		The Abell Family 216 Bates Drive Charlestown IN 47111 (Affected Party)									
9		Virginia & Hiram Abbott 9512 State Road 403 Charlestown IN 47111 (Affected Party)									
10		Ms. Lindsey Bertram 319 Locust Drive Charlestown IN 47111 (Affected Party)									
11		Ms. Rhonda Cole 175 Morningside Drive Charlestown IN 47111 (Affected Party)									
12		Mr. James D Cox 6817 Highway 403 Charlestown IN 47111 (Affected Party)									
13		Ms. Kristin Coy 1918 Vienna Road Charlestown IN 47111 (Affected Party)									
14		Mr. John Croucher Indiana Army Ammunition Place HWY 62 Charlestown IN 47111 (Affected Party)									
15		Mr. Michael Crum 5506 Salem Noble Rd Charlestown IN 47111 (Affected Party)									

Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is \$50,000 per piece subject to a limit of \$50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is \$500. The maximum indemnity payable is \$25,000 for registered mail, sent with optional postal insurance. See <b>Domestic Mail Manual R900, S913, and S921</b> for limitations of coverage on inured and COD mail. See <b>International Mail Manual</b> for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.
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											Remarks
1		Boyd Thompson 2907 Highway 160 Charlestown IN 47111 (Affected Party)									
2		Mr. Aaron Daniels 13411 Highway 62 Charlestown IN 47111 (Affected Party)									
3		Mr. Jeffery A Day 108 Bates Drive Charlestown IN 47111 (Affected Party)									
4		Mr. Glen R. Sherlin Jr. 177 Morningside Drive Charlestown IN 47111 (Affected Party)									
5		Ms. Ira W. Shaw 6801 Old Bethany Road Charlestown IN 47111 (Affected Party)									
6		Ms. Meredith Sims 5410 Greenleaf Frive Charlestown IN 47111 (Affected Party)									
7		James & Janet Goodwin 6906 Salem-noble Rd. Charlestown IN 47111 (Affected Party)									
8		Mr. Michael Grayson 6940 Ridge Point Way Charlestown IN 47111 (Affected Party)									
9		Ms. Andrea Edens 3604 Crescent Road Charlestown IN 47111 (Affected Party)									
10		Mr. Joshua Emily 8507 Eagletrail Charlestown IN 47111 (Affected Party)									
11		Chris & Cassie Ziem 2103 Fulton Drive Charlestown IN 47111 (Affected Party)									
12		Louis & Joyce Weber 7812 Salem Noble Road Charlestown IN 47111 (Affected Party)									
13		Ms. Sarah Hall 1513 Seatick Road Charlestown IN 47111 (Affected Party)									
14		Robert & Tana Harris 7706 Stone Creek Court Charlestown IN 47111 (Affected Party)									
15		Mr. Fred Ray 7804 Lost Creek Trail Charlestown IN 47111 (Affected Party)									

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											Remarks
1		Lisa Nepier 206 west Drive Charlestown IN 47111 (Affected Party)									
2		Mr. Greg Portman, Jr. 380 High Street Charlestown IN 47111 (Affected Party)									
3		Mr. Steve Ramage, Jr. 8570 Lakewood Drive Charlestown IN 47111 (Affected Party)									
4		Ms. Kris Knight 3324 Jack Teeple Road Charlestown IN 47111 (Affected Party)									
5		Mr. Christopher Howard 191 Highway 160 Charlestown IN 47111 (Affected Party)									
6		Mr. Andrew Merriman 201 Church Street Charlestown IN 47111 (Affected Party)									
7		Paul & Chris Lenfert 5715 Highway 403 Charlestown IN 47111 (Affected Party)									
8		James A Lewis Indiana State Senator 774 Level Charlestown IN 47111 (Legislator)									
9		Mr. Clifford H. Schafer 9002 Stonemour way Charlestown IN 47111-9697 (Affected Party)									
10		Ms. Betty Hislip 602 Dartmouth Drive, Apt 8 Clarksville IN 47129 (Affected Party)									
11		Mr. Clifford B Ernst, Jr. 10577 North Skyline Drive Floyds Knobs IN 47119 (Affected Party)									
12		Ms. Lois Ham 4204 Fawn Ct. Floyds Knobs IN 47119-9650 (Affected Party)									
13		Julia Daughy 613 Lincoln Speed IN 47 (Affected Party)									
14		Mrs. Sandy Banet 514 Haddox Rd Henryville IN 47126 (Affected Party)									
15		Mr. Ralph Guthrie Highway 160 East Henryville IN 47126 (Affected Party)									

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											Remarks
1		Bernice Prall 16715 Beryl Road Henryville IN 47126 (Affected Party)									
2		J. C. McReynolds 3009 Speith Road Henryville IN 47126 (Affected Party)									
3		Ms. Thelma Guernsey 623 Lincoln Blvd. Sellersburg IN 47172 (Affected Party)									
4		Mr. James Hale 24 Maple Street Sellersburg IN 47172 (Affected Party)									
5		Ms. Danielle Cunningham 5903 Shurgate Road Jeffersonville IN 47130 (Affected Party)									
6		Eric & Kathy Cunningham 5403 Shurgate Rd Jeffersonville IN 47130 (Affected Party)									
7		Ms. Rachel Cunnisher 5403 shurgate Road Jeffersonville IN 47130 (Affected Party)									
8		Jeffersonville City Council and Mayors Office 500 Quarter Master Jeffersonville IN 47130 (Local Official)									
9		Ms. Bonnie J Howell 1212 Birschwood Drive Jeffersonville IN 47130 (Affected Party)									
10		Mr. Edward Meyer 2608 Bennet Ave. Jeffersonville IN 47130 (Affected Party)									
11		Mr. Chris Myers 3208 Marion Court Louisville KY 40206 (Affected Party)									
12		Mr. Robert Bottom Paddlewheel Alliance P.O. Box 35531 Louisville KY 40232-5531 (Affected Party)									
13		Ms. Renee Butterworth Concerned Citizen Coalition 13500 Horncastle Way Louisville KY 40272-1326 (Affected Party)									
14		Ms. Maryann Carney 12001 Treloar Avenue Memphis IN 47143 (Affected Party)									
15		Mr. Lonnie Cooper 10312 Sticker Road Memphis IN 47143 (Affected Party)									

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1		Mark & K. C. Cooper 10102 Sticker RD Memphis IN 47143 (Affected Party)										
2		Mr. BJ Steele 12512 Bennettsville Road Memphis IN 47143 (Affected Party)										
3		Mr. John Hamm, Sr 11714 Charlestown-Memphis Rd Memphis IN 47143 (Affected Party)										
4		Ms. Sharon Park 11011 Stricker Road Memphis IN 47143 (Affected Party)										
5		Mr. John Beyl 13251 Morning Mist Trail Memphis IN 47143 (Affected Party)										
6		Mr. Scott Ellis Cadence Environmental Inc. Cadence Park Plaza Michigan City IN 46360 (Affected Party)										
7		The Honorable Connie Sipes Southern Indiana Endoscopy 2630 Grant Line Rd New Albany IN 47150 (Legislator)										
8		Mr. Michael Wildt 1020 Falcon Ct. New Albany IN 47150-5463 (Affected Party)										
9		Ms. Connie Dietrich 2515 Leon Prall Road Otisco IN 47163 (Affected Party)										
10		Ms. Stephanie Zollmar 1007 Clapp Road Otisco IN 47163-9733 (Affected Party)										
11		Larena SwanCorya 5119 Bud Prather Sellersburg IN 47172 (Affected Party)										
12		Mr. John Popp 849 Dreyer Lane Sellersburg IN 47172 (Affected Party)										
13		Silver Creek Junior High Faculty 495 North Indiana Avenue Sellersburg IN 47172 (Affected Party)										
14		B G Adkins 617 Whitner Court Sellersburg IN 47172 (Affected Party)										
15		Benita & Ed Barczak PO Box H Sellersburg IN 47172 (Affected Party)										

Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is \$50,000 per piece subject to a limit of \$50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is \$500. The maximum indemnity payable is \$25,000 for registered mail, sent with optional postal insurance. See <b>Domestic Mail Manual R900, S913, and S921</b> for limitations of coverage on inured and COD mail. See <b>International Mail Manual</b> for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.
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# Mail Code 61-53

IDEM Staff	MIDENNEY 8/9/2012 ESSROC Cement Corp 019-31269-00008 (final)		Type of Mail:  <b>CERTIFICATE OF MAILING ONLY</b>	AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender		Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204		

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee	Remarks
1		Anthony W. Ahliland 638 Pennsylvania Avenue Sellersburg IN 47172 (Affected Party)										
2		Robert & Sandra Carter 261 Shirley Avenue Sellersburg IN 47172 (Affected Party)										
3		Mr. Lindon Bland 586 Eastern Blvd Clarksville IN 47129 (Affected Party)										
4		Mr. Randy Bowling Silver Creek Junior High Faculty 495 North Indiana Avenue Sellersburg IN 47172 (Affected Party)										
5		Phillip & Kathy Combs 5102 Tunnel Mill Drive Charlestown IN 47172 (Consultant)										
6		Jeff & Lisa Burgess 221 Creek Road Sellersburg IN 47172 (Affected Party)										
7		Ms. Patricia Soeder 256 Kahl Court Sellersburg IN 47172 (Affected Party)										
8		Sellersburg Town Council 316 Utica Street Sellersburg IN 47172 (Local Official)										
9		Mr. Larry E. Thomas Silver Creek Juniot High Faculty 495 North Avenue Sellersburg IN 47172 (Affected Party)										
10		Mr. Ken Rush Sellersburg Stone Company, Inc. 1019 East Utica Street Sellersburg IN 47172 (Affected Party)										
11		Junita & Alfred Samples 316 Kahl CT Sellersburg IN 47172 (Affected Party)										
12		Carol & Charles Deaton 403 Allhands Avenue Sellersburg IN 47172 (Affected Party)										
13		Mr. William Wise 522 Linnwood Sellersburg IN 47172 (Affected Party)										
14		Ms. Lisa Goodwin 624 Allen RD Sellersburg IN 47172 (Affected Party)										
15		Mr. Rick Gordon 635 Forest Drive North Sellersburg IN 47172 (Affected Party)										

Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is \$50,000 per piece subject to a limit of \$50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is \$500. The maximum indemnity payable is \$25,000 for registered mail, sent with optional postal insurance. See <b>Domestic Mail Manual R900, S913, and S921</b> for limitations of coverage on inured and COD mail. See <b>International Mail Manual</b> for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.
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1		Don & Carol Dooley 24 LaSalle St Sellersburg IN 47172 (Affected Party)										
2		Mr. Philip D Downey Silver Creek Junior High Faculty 495 North Indiana Avenue Sellersburg IN 47172 (Affected Party)										
3		Ms. Linda Everage 4024 Perry Crossing Rd Sellersburg IN 47172 (Affected Party)										
4		Mr. Tony Grider 151 S Fern St. Sellersburg IN 47172 (Affected Party)										
5		Wilma & Clifford Weber 101 East Ehringer Lane Sellersburg IN 47172 (Affected Party)										
6		Edward & Denna Wilder 634 Georgian Avenue Sellersburg IN 47172 (Affected Party)										
7		Jerry & Deborah S. Wilkerson 4813 Greenleaf Road Sellersburg IN 47172 (Affected Party)										
8		The Smith Residence 335 Popp Avenue Sellersburg IN 47172 (Affected Party)										
9		James & Bernadine Hall 614 Georgian Avenue Sellersburg IN 47172 (Affected Party)										
10		Mr. Rudolph Hamblin 548 Eastside Avenue Sellersburg IN 47172 (Affected Party)										
11		Mr. James H Hamilton 1710 Mayfair Drive Sellersburg IN 47172 (Affected Party)										
12		Ms. Dixie Harvey 536 Kay Avenue Sellersburg IN 47172 (Affected Party)										
13		Bob & Sara Hauselman Restoration Christian Church & School 11515 Highway 31 Sellersburg IN 47172 (Affected Party)										
14		James & Joyce Hecker 523 Foothill Road Sellersburg IN 47172 (Affected Party)										
15		Ms. Phyllis Rhodes 606 Lane Avenue Sellersburg IN 47172 (Affected Party)										

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1		Maynard A. Perkins 9141 Virginia Heights Sellersburg IN 47172 (Affected Party)										
2		Belva J. Ollis 611 Whitner Court Sellersburg IN 47172 (Affected Party)										
3		Ms. Nancy Kerstiens 712 Easet Delaware Court Sellersburg IN 47172 (Affected Party)										
4		Mr. Gary Koerber 2413 Allentown Rd. Sellersburg IN 47172 (Affected Party)										
5		Ms. Amy McIntyre 647 Mulberry Street Sellersburg IN 47172 (Affected Party)										
6		Ms. Tammy McKinley 8012 SR 60 Sellersburg IN 47172 (Affected Party)										
7		Mr. Kenneth R Miller 2715 Ellentown Road Sellersburg IN 47172 (Affected Party)										
8		W. T. & Janet Kranz 4119 Greenleaf Rd. Sellersburg IN 47172 (Affected Party)										
9		Tony & Judith Lewis 4507 Greenleaf RD Sellersburg IN 47172 (Affected Party)										
10		Gary & Linda Lewis 212 South Fern Street Sellersburg IN 47172 (Affected Party)										
11		Dr. David & Mary Ann Losey 627 Allen RD Sellersburg IN 47172 (Affected Party)										
12		Mr. Bruce A. Mayfield Silver Creek Junior High Faculty 495 North Indiana Avenue Sellersburg IN 47172 (Affected Party)										
13		Mr. Mark Kayrouz 615 Lincoln Blvd. Sellersburg IN 47172 (Affected Party)										
14		Ms. Yvonne Willhite 8898 East 100 South Seymour IN 47274 (Affected Party)										
15		Mr. Randy Hall 6998 East 300 South Seymour IN 47274 (Affected Party)										

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1		Jennifer Jaynes 7501 East 200 North Seymour IN 47274 (Affected Party)										
2		Ms. Marlyn Coomes 144 Clark Street Speed IN 47172 (Affected Party)										
3		Ms. Shelley Sarles 222 Virginia Street Speed IN 47172 (Affected Party)										
4		Ms. Chrystal Dutz 110 Clark Street Speed IN 47172 (Affected Party)										
5		Mr. Alan K. Waig 162 South Indiana Avenue Speed IN 47172 (Affected Party)										
6		Mr. James S Haehl 24 Maple Street Speed IN 47172 (Affected Party)										
7		Ms. Barbara Keehn 21 Maple Speed IN 47172-1314 (Affected Party)										
8		Mrs. Terry Swan-Corya 5119 Bud Prather Road Sellersburg IN 47172 (Affected Party)										
9		Mr. Rodney Donohne 612 Lincoln Blvd Sellersburg IN 47172 (Affected Party)										
10		Ms. Susan Riley 618 Lincoln Blvd Sellersburg IN 47172 (Affected Party)										
11		Robert G. & Beverly Jackson 601 Lincoln Blvd. Speed IN 47172-1312 (Affected Party)										
12		Sellersburg Public Library 430 N Indiana Ave Sellersburg IN 47172 (Library)										
13		Mr. Jim Henderson 27 Maple Street Sellersburg IN 47172 (Affected Party)										
14		The Honorable Paul Robertson 8990 Bird Trail NW Depauw IN 47172 (Legislator)										
15		Clark County Board of Commissioners 501 E. Court Avenue Jeffersonville IN 47130 (Local Official)										

Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is \$50,000 per piece subject to a limit of \$50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is \$500. The maximum indemnity payable is \$25,000 for registered mail, sent with optional postal insurance. See <b>Domestic Mail Manual R900, S913, and S921</b> for limitations of coverage on inured and COD mail. See <b>International Mail Manual</b> for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.
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											Remarks
1		John Groan 5402 Stone Creek Drive Charlestown IN 47111 (Affected Party)									
2		Mr. Carl E Dreyer 830 Dreyer Lane Sellersburg IN 47172 (Affected Party)									
3		Kathy & Greg Gapsis 8175 Old Vincesses Rd Greenville IN 47124 (Affected Party)									
4		Ms. Sarah Whitlow 5164 St. Johns Road Greenville IN 47124 (Affected Party)									
5		Ms. Julie Reising 5221 Clover Ridge Drive Greenville IN 47124-9528 (Affected Party)									
6		Clark County Health Department 1320 Duncan Avenue Jeffersonville IN 47130-3723 (Health Department)									
7											
8											
9											
10											
11											
12											
13											
14											
15											

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# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

*Mitchell E. Daniels Jr.*  
**Governor**

*Thomas W. Easterly*  
**Commissioner**

100 North Senate Avenue  
Indianapolis, Indiana 46204  
(317) 232-8603  
Toll Free (800) 451-6027  
[www.idem.IN.gov](http://www.idem.IN.gov)

TO: Interested Parties / Applicant

DATE: August 9, 2012

RE: ESSROC Cement Corporation / 019-31269-00008

FROM: Matthew Stuckey, Branch Chief  
Permits Branch  
Office of Air Quality

In order to conserve paper and reduce postage costs, IDEM's Office of Air Quality is now sending many permit decisions on CDs in Adobe PDF format. The enclosed CD contains information regarding the company named above.

This permit is also available on the IDEM website at:  
<http://www.in.gov/ai/appfiles/idem-caats/>

If you would like to request a paper copy of the permit document, please contact IDEM's central file room at:

Indiana Government Center North, Room 1201  
100 North Senate Avenue, MC 50-07  
Indianapolis, IN 46204  
Phone: 1-800-451-6027 (ext. 4-0965)  
Fax (317) 232-8659

**Please Note:** *If you feel you have received this information in error, or would like to be removed from the Air Permits mailing list, please contact Patricia Pear with the Air Permits Administration Section at 1-800-451-6027, ext. 3-6875 or via e-mail at [PPEAR@IDEM.IN.GOV](mailto:PPEAR@IDEM.IN.GOV).*

Enclosures  
CD Memo.dot 11/14/08