INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
(800) 451-6027
www.IN.gov/idem

TO: Interested Parties / Applicant

DATE: July 7, 2006

RE: Lehigh Cement Company / 093-21975-00002

FROM: Nisha Sizemore
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, Room 1049, 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 impractible 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.

Enclosures
FNTV-PMOD.doc 1/10/05

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July 7, 2006

Ms. Debbie Tolliver
Lehigh Cement Company
121 North First Street
P.O. Box 97
Mitchell, Indiana 47446

Re: 093-21975-00002
Significant Permit Modification to
Part 70 No.: T093- 5990-00002

Dear Ms. Tolliver:

Lehigh Cement Company, located at 121 North First Street, Mitchell, Indiana 47446 was issued a Part 70 permit on December 30, 2002 for a portland cement manufacturing plant. A letter requesting changes to this permit was received on September 13, 2005. Lehigh requested its Part 70 Operating Permit be modified to allow the burning of coal and treated wood blends in Kiln #1 and Kiln #2. Lehigh's application also included the request to utilize the Kiln #1 and Kiln #2 alternative fuel delivery systems (F19 and F20) to deliver the treated wood to Kilns #1 and Kiln #2.

Pursuant to the provisions of 326 IAC 2-7-12 a significant permit modification to this permit is hereby approved.

Part 70 Operating Permit No. 093-5990-00002 has been modified to:

1. Include that Kiln #1 and Kiln #2 are each permitted to burn a blended fuel of coal and clean and/or treated wood where the blend has a maximum of 35% clean and/or treated wood by heat input in the facility descriptions in Section A.2(ccc) and (ddd), and in Section D.4;
2. Amend IDEM's address in Sections B.10(a), B.11(a), B.12(b)(5), B.15(b), B.17(a), B.18(b), B.20(a)(4), B.23(b), C.8(d), C.9(a), C.11, C.19(b), C.21(b), C.22(f), and on the Emergency Occurrence Report Form;
3. Incorporate the credible evidence requirements of 326 IAC 1-1-6 into Condition B.25 and in the Table of Contents;
4. Incorporate the 326 IAC 2-2-8(b) and (c) New Source Review record keeping and reporting requirements in Conditions C.20 and C.21 and in the Table of Contents;
5. Correct the reference to the citation "40 CFR 63.1349(b)(2)" in Condition D.2.9(c);
6. Clarify the NESHAP requirements in Condition D.2.11(a) consistent with 40 CFR § 63.1350; and
7. Include in Condition D.4.1.1 that Kiln #1 and Kiln #2 are both permitted to burn a blended fuel of coal and treated wood where the blend has a maximum of up to 35% clean and/or treated wood by heat input.

Other than the permit modifications detailed in this approval letter, all other conditions/requirements of Lehigh Cement Company's Part 70 Operating Permit shall remain unchanged and unaffected. Please find enclosed a reprinted copy of the entire Part 70 Operating 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, please contact Walter Habeeb OAQ, 100 North Senate Avenue, Indianapolis, Indiana, 46204-2251, or call at (800) 451-6027, and ask for Walter Habeeb or extension (2-8422), or dial (317) 232-8422.

Sincerely,
Original signed by

Nisha Sizemore, Chief
Permit Branch
Office of Air Quality

Attachments
WH
cc: File - Lawrence County
U.S. EPA, Region V
Lawrence County Health Department

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PART 70 OPERATING PERMIT
OFFICE OF AIR QUALITY
Lehigh Cement Company
121 North First Street
Mitchell, Indiana 47446

(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.

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.: T093-5990-00002	
Original issued by: Janet G. McCabe, Assistant Commissioner Office of Air Quality	Issuance Date: December 30, 2002 Expiration Date: December 30, 2007
First Significant Permit Modification No.:	093-16851-00002, issued on July 11, 2003
Second Significant Permit Modification No.:	093-18649-00002, issued on November 5, 2004
First Administrative Amendment No.:	093-20912-00002, issued on April 8, 2005
Second Administrative Amendment No.:	093-21136-00002, issued on April 26, 2005
Minor Permit Modification No.:	093-21919-00002, issued on April 17, 2006
Significant Permit Modification No.: 093-21975-00002	Conditions Affected: Table of Contents B.25, C.20, and C.21; Kiln #1 and Kiln #2 Facility Descriptions in Section A.2(ccc), A.2 (ddd), and D.4; Amended IDEM's address in Sections B.10(a), B.11(a), B.12(b)(5), B.15(b), B.17(a), B.18(b), B.20(a)(4), B.23(b), C.8(d), C.9(a), C.11, C.19(b), C.21(b), C.22(f), and on the Emergency Occurrence Report Form; Conditions B25, C.20, C.21, D.2.9(c), D.2.11(a), and D.4.1.1.
Issued by: Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: July 7, 2006 Expiration Date: December 30, 2007

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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 through A.3 and the facility/emissions unit description boxes in Sections D of the permit, 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(15)] [326 IAC 2-7-1(22)]

The Permittee owns and operates a portland cement manufacturing plant.

Responsible Official:	Plant Manager
Source Address:	121 North First Street, Mitchell, Indiana 47446
Mailing Address:	121 North First Street, P.O. Box 97, Mitchell, Indiana 47446
Phone Number:	(812) 849-2191
SIC Code:	3241
County Location:	Lawrence
Source Location Status:	Attainment or unclassified for all criteria pollutants
Source Status:	Part 70 Permit Program Major Source under PSD Rules Major Source, Section 112 of the Clean Air Act One of the 28 listed source categories

A.2 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 quarry activities, as follows:

(a) Drilling/blasting, hauling, handling and storage, identified as F01, commenced prior to 1971, with associated fugitive particulate matter (PM) emissions.

The quarry material sizing facilities/emissions units, as follows:

(b) One (1) primary crusher, identified as EU01, constructed in 1965, with a nominal rate of 975 tons per hour, with PM emissions controlled by one (1) baghouse, identified as QDC2, and exhausting to one (1) stack, identified as S-QDC2.

(c) One (1) surge bin and transfer system, identified as EU02, constructed in 1965, with a nominal rate of 975 tons per hour, with PM emissions controlled by one (1) baghouse, identified as QDC3, and exhausting to one (1) stack, identified as S-QDC3.

(d) One (1) secondary crusher, identified as EU03, constructed in 1965, with a nominal rate of 975 tons per hour, with PM emissions controlled by one (1) baghouse, identified as QDC4, and exhausting to one (1) stack, identified as S-QDC4.

(e) One (1) tertiary crusher, identified as EU04, constructed in 1965, with a nominal rate of 975 tons per hour, with PM emissions controlled by one (1) baghouse, identified as QDC4, and exhausting to one (1) stack, identified as S-QDC4.

(f) One (1) north screen house, identified as EU05, constructed in 1965, with a nominal rate of 975 tons per hour, with PM emissions controlled by one (1) baghouse, identified as

QDC5, and exhausting to one (1) stack, identified as S-QDC5.

(g) One (1) south screen house, identified as EU06, constructed in 1965, with a nominal rate of 975 tons per hour, with PM emissions controlled by one (1) baghouse, identified as QDC6, and exhausting to one (1) stack, identified as S-QDC6.

(h) One (1) belt #7 to belt #8 conveyor transfer point, identified as EU07, constructed in 1965, with a nominal rate of 975 tons per hour, with PM emissions controlled by one (1) baghouse, identified as QDC7, and exhausting to one (1) stack, identified as S-QDC7.

(i) One (1) belt #8 to belt #9 conveyor transfer point, identified as EU08, constructed in 1965, with a nominal rate of 975 tons per hour, with PM emissions controlled by one (1) baghouse, identified as QDC8, and exhausting to one (1) stack, identified as S-QDC8.

(j) One (1) belt #9 to belt #10 conveyor transfer point, identified as F02, constructed in 1965, with a nominal rate of 975 tons per hour, using seasonal water suppression to control PM emissions, and exhausting directly to the atmosphere.

The cement kiln dust storage, disposal, mining, and handling facilities/emissions units, as follows:

(k) One (1) cement kiln dust (CKD) bin, identified as EU24, constructed in 1959, with a nominal rate of 100 tons per hour, with PM emissions controlled by one (1) baghouse, identified as KDC7, and exhausting to one (1) stack, identified as S-KDC7.

(l) One (1) CKD truck unloading system, identified as EU24A, constructed in 1959, with a nominal rate of 60 tons per hour, with PM emissions controlled by one (1) baghouse, identified as KDC7A, and exhausting to one (1) stack, identified as S-KDC7A.

(m) One (1) CKD mixer, identified as EU24B, constructed in 1999, with a nominal rate of 104 tons per hour, with PM emissions controlled by one (1) baghouse, identified as KDC7B, and exhausting to one (1) stack, identified as S-KDC7B.

(n) One (1) CKD truck loadout, identified as F07, constructed in 1999, with a nominal rate of 104 tons per hour, with PM emissions uncontrolled, and exhausting directly to the atmosphere.

(o) CKD disposal and mining facilities, identified as F05, constructed in 1999, with particulate matter emissions uncontrolled, and exhausting directly to the atmosphere.

The raw material handling and storage facilities/emissions units, as follows:

(p) A conveying system to transport raw material to storage, identified as EU09, constructed in 1960, with a nominal rate of 200 tons per hour, with PM emissions controlled by one (1) baghouse, identified as RMDC1, and exhausting to one (1) stack, identified as S-RMDC1.

(q) One (1) shale crusher, identified as EU10, constructed in 1961, with a nominal rate of 200 tons per hour, with PM emissions controlled by one (1) baghouse, identified as RMDC2, and exhausting to one (1) stack, identified as S-RMDC2.

(r) One (1) material storage building, identified as F03, constructed in 1959-1960, with fugitive emissions from various conveyors and storage piles controlled by partial enclosure and exhausting directly to the atmosphere.

(s) One (1) coal unloading building, identified as F08, constructed in 1960, with particulate matter emissions controlled by partial enclosure and exhausting directly to the atmosphere.

(t) One (1) coal pile, identified as F04, storage commencing prior to 1971, with particulate matter emissions uncontrolled, and exhausting directly to the atmosphere.

(u) Raw material stockpiles collectively, identified as F09, storage commencing prior to 1971, used for temporary storage of various feed materials, including gypsum, foundry sand, mill scale, and slag, with particulate matter emissions uncontrolled, and exhausting to the atmosphere.

Kiln #1 and Kiln #2 Alternative Fuel Delivery Systems as follows:

(u.1) One (1) Kiln #1 alternative fuel delivery system, identified as F19, consisting of a partially enclosed hopper exhausting to the atmosphere and a series of totally enclosed conveyors, with a nominal throughput of 87,600 tons per year.

(u.2) One (1) Kiln #2 alternative fuel delivery system, identified as F20, consisting of a partially enclosed hopper exhausting to the atmosphere and a series of totally enclosed conveyors, with a nominal throughput of 87,600 tons per year.

The raw mill facilities/emissions units, as follows:

(v) One (1) raw mill #1, identified as EU11, constructed in 1961, with a nominal rate of 100 tons per hour and including a natural gas-fired burner, identified as EU11A, with a maximum heat input rate of 20 million British thermal units (MMBtu) per hour, with PM emissions controlled by one (1) baghouse, identified as RMDC3, and exhausting to one (1) stack, identified as S-RMDC3.

(w) One (1) raw mill #2, identified as EU12, constructed in 1961, with a nominal rate of 100 tons per hour and including a natural gas-fired burner, identified as EU12A, with a maximum heat input rate of 20 million British thermal units (MMBtu) per hour, with PM emissions controlled by one (1) baghouse, identified as RMDC4, and exhausting to one (1) stack, identified as S-RMDC4.

The raw mill storage facilities/emissions units, as follows:

(x) Blending bins, identified as EU13, constructed in 1961, with a combined nominal rate of 250 tons per hour, with PM emissions controlled by two (2) baghouses, identified as RMDC5 and RMDC6, and each exhausting to separate stacks, identified as S-RMDC5 and S-RMDC6, respectively.

(y) Kiln supply silos, identified as EU14, constructed in 1961, with a combined nominal rate of 250 tons per hour, with PM emissions controlled by two (2) baghouses, identified as RMDC7 and RMDC8, and each exhausting to separate stacks, identified as S-RMDC7 and S-RMDC8, respectively.

(z) One (1) kiln feed bin #1, identified as EU18, constructed in 1959, with a nominal rate of 66 tons per hour, with PM emissions controlled by one (1) baghouse, identified as KDC1, and exhausting to one (1) stack, identified as S-KDC1.

(aa) One (1) kiln feed bin #2, identified as EU20, constructed in 1959, with a nominal rate of 66 tons per hour, with PM emissions controlled by one (1) baghouse, identified as KDC3, and exhausting to one (1) stack, identified as S-KDC3.

(bb) One (1) kiln feed bin #3, identified as EU22, constructed in 1974, with a nominal rate of 73 tons per hour, with PM emissions controlled by one (1) baghouse, identified as KDC5, and exhausting to one (1) stack, identified as S-KDC5.

The clinker handling facilities/emissions units, as follows:

(cc) One (1) south storage drag, identified as EU25, constructed in 1974, with a nominal rate of 120 tons per hour, with PM emissions controlled by one (1) baghouse, identified as FDC1, and exhausting to one (1) stack, identified as S-FDC1.

(dd) One (1) north clinker tower, identified as EU26a, constructed in 1959, with a nominal rate of 120 tons per hour, with PM emissions controlled by one (1) baghouse, identified as FDC2, and exhausting to one (1) stack, identified as S-FDC2.

(ee) One (1) North storage drag, identified as EU26b, constructed in 1959, with a nominal rate of 120 tons per hour, with PM emissions controlled by one (1) baghouse, identified as FDC2, and exhausting to one (1) stack, identified as S-FDC2.

(ff) One (1) scrap bin clinker ladder, identified as EU26c, constructed in 1993, with a nominal rate of 120 tons per hour, with PM emissions controlled by one (1) baghouse, identified as FDC2, and exhausting to one (1) stack, identified as S-FDC2.

(gg) One (1) south clinker tower, identified as EU27, constructed in 1974, with a nominal rate of 120 tons per hour, with PM emissions controlled by one (1) baghouse, identified as FDC3, and exhausting to one (1) stack, identified as S-FDC3.

(hh) One (1) hot spout clinker ladder, identified as EU28, constructed in 1993, with a nominal rate of 120 tons per hour, with PM emissions controlled by one (1) baghouse, identified as FDC4, and exhausting to one (1) stack, identified as S-FDC4.

(ii) One (1) pan clinker conveyor, identified as EU29, constructed in 1979, with a nominal rate of 120 tons per hour, with PM emissions controlled by one (1) baghouse, identified as FDC5, and exhausting to one (1) stack, identified as S-FDC5.

(jj) One (1) east clinker ladder, identified as EU30, constructed in 1993, with a nominal rate of 120 tons per hour, with PM emissions controlled by one (1) baghouse, identified as FDC6, and exhausting to one (1) stack, identified as S-FDC6.

(kk) One (1) roll crusher, identified as EU31, constructed in 1987, with a nominal rate of 240 tons per hour, with PM emissions controlled by one (1) baghouse, identified as FDC7, and exhausting to one (1) stack, identified as S-FDC7.

Note: The scrap bin clinker ladder (EU26c), the hot spout clinker ladder (EU28), and the east clinker ladder (EU30) are not emission units; they are flaps which are used to reduce the drop heights from the north clinker tower, the south clinker tower, and the north storage drag, respectively, which reduce particulate emissions.

The finish mill facilities/emissions units, as follows:

(ll) One (1) finish mill #1 with associated feed bin, identified as EU32, constructed in 1959, with a nominal rate of 37 tons per hour, with PM emissions controlled by one (1) baghouse, identified as FDC8, and exhausting to one (1) stack, identified as S-FDC8.

(mm) One (1) finish mill #2 with associated feed bin, identified as EU33, constructed in 1959, with a nominal rate of 37 tons per hour, with PM emissions controlled by one (1)

baghouse, identified as FDC9, and exhausting to one (1) stack, identified as S-FDC9.

(nn) One (1) finish mill #3 with associated feed bin, identified as EU34, constructed in 1959, with a nominal rate of 37 tons per hour, with PM emissions controlled by one (1) baghouse, identified as FDC10, and exhausting to one (1) stack, identified as S-FDC10.

(oo) One (1) finish mill #4 with associated feed bin, identified as EU35, constructed in 1974, with a nominal rate of 50 tons per hour, with PM emissions controlled by one (1) baghouse, identified as FDC11, and exhausting to one (1) stack, identified as S-FDC11.

(pp) One (1) finish mill #4 separator, identified as EU36, constructed in 1989, with a nominal rate of 50 tons per hour, with PM emissions controlled by one (1) baghouse, identified as FDC12, and exhausting to one (1) stack, identified as S-FDC12.

(qq) One (1) lime bin, identified as EU38, constructed in 1993, with a nominal rate of 6 tons per hour, with PM emissions controlled by one (1) baghouse, identified as FDC14, and exhausting to one (1) stack, identified as S-FDC14.

The finish material storage facilities/emissions units, as follows:

(rr) One (1) surge bin, identified as EU37, constructed in 1959, with a nominal rate of 35 tons per hour, with PM emissions controlled by one (1) baghouse, identified as FDC13, and exhausting to one (1) stack, identified as S-FDC13.

(ss) A north and south silo operation consisting of thirty (30) storage silos, identified as EU39A and EU39B, constructed in 1959, with a nominal rate of 60 tons per hour, with PM emissions controlled by two (2) baghouses, identified as SDC1 and SDC2, and exhausting to two (2) stacks, identified as S-SDC1 and S-SDC2, respectively.

(tt) A silo transfer system, identified as EU40A and EU40B, constructed in 1959, with a nominal rate of 300 tons per hour, with PM emissions controlled by two (2) baghouses, identified as SDC3 and SDC4, and exhausting to two (2) stacks, identified as S-SDC3 and S-SDC4, respectively.

The bulk loading and packaging facilities/emissions units, as follows:

(uu) One (1) east truck loadout bin, identified as EU41, constructed in 1959, with a nominal rate of 450 tons per hour, with PM emissions controlled by one (1) baghouse, identified as SDC5, and exhausting to one (1) stack, identified as S-SDC5.

(vv) One (1) east truck vaculoader, identified as EU42, constructed in 1959, with a nominal rate of 450 tons per hour, with PM emissions controlled by one (1) baghouse, identified as SDC6, and exhausting to one (1) stack, identified as S-SDC6.

(ww) One (1) west truck loadout bin, identified as EU43, constructed in 1959, with a nominal rate of 450 tons per hour, with PM emissions controlled by one (1) baghouse, identified as SDC7, and exhausting to one (1) stack, identified as S-SDC7.

(xx) One (1) west truck vaculoader, identified as EU44, constructed in 1959, with a nominal rate of 450 tons per hour, with PM emissions controlled by one (1) baghouse, identified as SDC8, and exhausting to one (1) stack, identified as S-SDC8.

(yy) One (1) truck loadout station, identified as F06, constructed in 1959, with a nominal rate of 30 tons per hour, and exhausting directly to the atmosphere.

(zz) One (1) railroad loadout bin, identified as EU45, constructed in 1959, with a nominal rate of 240 tons per hour, with PM emissions controlled by one (1) baghouse, identified as SDC9, and exhausting to one (1) stack, identified as S-SDC9.

(aaa) One (1) articuloader, identified as EU46, constructed in 1959, with a nominal rate of 240 tons per hour, with PM emissions controlled by one (1) baghouse, identified as SDC10, and exhausting to one (1) stack, identified as S-SDC10.

(bbb) One (1) packing machine, identified as EU47, constructed in 1984, with a nominal rate of 40 tons per hour, with PM emissions controlled by two (2) baghouses, identified as SDC11 and SDC12, and exhausting to two (2) stacks, identified as S-SDC11 and S-SDC12, respectively.

The kiln facilities/emissions units, as follows:

(ccc) One (1) kiln #1, identified as EU15, constructed in 1959 as a long dry kiln and modified to a one-stage preheater kiln in July 2003, with a heat input rate of 118 million Btu per hour, with a nominal production rate of 38 tons per hour, with PM emissions controlled by one (1) electrostatic precipitator (ESP), identified as KP1, and dioxins/ furans controlled and SO_2 partially controlled by a Water Spray Tower, and exhausting to one (1) stack, identified as S-KP1. Kiln #1 is also permitted to use a blended fuel of coal and pressed paper making waste where the blend has a maximum of 20% pressed paper making waste by heat input.

Kiln #1 is permitted to use a blended fuel of coal and clean and/or treated wood where the blend has a maximum of up to 35% clean and/or treated wood by heat input.

(ddd) One (1) kiln #2, identified as EU16, constructed in 1959 as a long dry kiln and modified to a one-stage preheater kiln in July 2003, with a heat input rate of 118 million Btu per hour, with a nominal production rate of 38 tons per hour, with PM emissions controlled by one (1) electrostatic precipitator (ESP), identified as KP2, and dioxins/ furans controlled and SO_2 partially controlled by a Water Spray Tower, and exhausting to one (1) stack, identified as S-KP1. Kiln #2 is also permitted to use a blended fuel of coal and pressed paper making waste where the blend has a maximum of 20% pressed paper making waste by heat input.

Kiln #2 is permitted to use a blended fuel of coal and clean and/or treated wood where the blend has a maximum of up to 35% clean and/or treated wood by heat input.

(eee) One (1) kiln #3, identified as EU17, constructed in 1974 as a one-stage preheater kiln, with a heat input rate of 118 million Btu per hour, with a nominal production rate of 43 tons per hour, with PM emissions controlled by one (1) electrostatic precipitator (ESP), identified as KP3, and exhausting to one (1) stack, identified as S-KP2. Kiln #3 is also permitted to use a blended fuel of coal and pressed paper making waste where the blend has a maximum of 20% pressed paper making waste by heat input.

The clinker cooler facilities/emissions units, as follows:

(fff) One (1) clinker cooler #1, identified as EU19, constructed in 1959, with a nominal rate of 38 tons per hour, with PM emissions controlled by one (1) baghouse, identified as KDC2, and exhausting to one (1) stack, identified as S-KDC2.

(ggg) One (1) clinker cooler #2, identified as EU21, constructed in 1959, with a nominal rate of 38 tons per hour, with PM emissions controlled by one (1) baghouse, identified as KDC4, and exhausting to one (1) stack, identified as S-KDC4.

(hhh) One (1) clinker cooler #3, identified as EU23, constructed in 1974, with a nominal rate of 43 tons per hour, with PM emissions controlled by one (1) baghouse, identified as KDC6, and exhausting to one (1) stack, identified as S-KDC6.

Calcium sulfate material facilities/emission units, consisting of the following:

(iii) Two (2) storage piles, identified as F10 and F12, with emissions uncontrolled and exhausting to the atmosphere, potential capacity: 0.10 and 0.05 acres, respectively.

(jjj) One (1) synthetic gypsum hopper, identified as F11, with emissions uncontrolled and exhausting to the atmosphere, maximum throughput: 60 tons per hour.

(kkk) One (1) synthetic gypsum weight belt, identified as F15, with emissions uncontrolled and exhausting to the atmosphere, maximum throughput: 60 tons per hour.

(lll) One (1) raw material hopper, identified as F13, with emissions uncontrolled and exhausting to the atmosphere, maximum throughput: 60 tons per hour.

(mmm) One (1) raw material weight belt, identified as F16, with emissions uncontrolled and exhausting to the atmosphere, maximum throughput: 60 tons per hour.

(nnn) One (1) main belt #1, identified as F17, with emissions uncontrolled and exhausting to the atmosphere, maximum throughput: 100 tons per hour.

(ooo) One (1) enclosed CKD conveyor #1, identified as EU50, maximum throughput: 50 tons per hour.

(ppp) One (1) CKD storage silo, identified as EU48, previously used as a blending bin, with particulate emissions controlled by an existing baghouse, identified as RMDC5, and exhausting to stack S-RMDC5, maximum throughput: 50 tons per hour.

(qqq) One (1) enclosed CKD conveyor #2, identified as EU51, maximum throughput: 50 tons per hour.

(rrr) One (1) enclosed pugmill, identified as EU49, maximum capacity: 100 tons per hour.

(sss) One (1) main belt #2, identified as F18, with emissions uncontrolled and exhausting to the atmosphere, maximum throughput: 100 tons per hour.

(ttt) One (1) outdoor, partially enclosed calcium sulfate material storage pile, identified as F14, potential capacity: 0.10 acre.

A.3 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]

(1) This stationary source includes the following specifically regulated insignificant activities:

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]

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

(a) Space heaters, process heaters, or boilers using the following fuels:

(1) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour.

(2) Fuel oil-fired combustion sources with heat input equal to or less than two million (2,000,000) Btu per hour and firing fuel containing less than five-tenths (0.5) percent sulfur by weight.

(b) A gasoline fuel transfer and dispensing operation handling less than or equal to 1,300 gallons per day, such as filling of tanks, locomotives, automobiles, having a storage capacity less than or equal to 10,500 gallons.

(c) The following VOC and HAP storage containers:

(1) Storage tanks with capacity less than or equal to 1,000 gallons and annual throughput less than 12,000 gallons.

(2) Vessels storing lubricating oils, hydraulic oils, machining oils, and machining fluids.

(d) Refractory storage not requiring air pollution control equipment.

(e) Application of oils, greases, lubricants, or other nonvolatile materials applied as temporary protective coatings.

(f) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.

(g) Heat exchanger cleaning and repair.

(h) Paved and unpaved roads and parking lots with public access.

(i) Underground conveyors with PM controlled by total enclosure.

(j) On-site fire and emergency response training approved by the department.

(k) Emergency generators as follows:

(1) Gasoline generators not exceeding 110 horsepower.

(2) Diesel generators not exceeding 1600 horsepower.

(l) Stationary fire pumps.

(m) A laboratory as defined in 326 IAC 2-7-1 (21)(D).

(n) Other categories with emissions below insignificant thresholds as follows:

(1) Two (2) grinding aid storage tanks.

(2) Three (3) Airalon/Airplas storage tanks.

(3) Three (3) coal mills, with nominal rates of 5, 6, and 6 tons per hour, with particulate matter controlled by total enclosure.

(4) One coal feeder conveyor and one coal unloading conveyor, with nominal rates of 250 tons per hour and 260 tons per hour, respectively, constructed prior to August 17, 1971, with particulate matter emissions controlled by total enclosure.

A.4 Part 70 Permit Applicability [326 IAC 2-7-2]

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

(a) It is a major source, as defined in 326 IAC 2-7-1(22); and

(b) 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]

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]

This permit 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 to this permit do not affect the expiration date.

B.3 Enforceability [326 IAC 2-7-7]

Unless otherwise stated, all terms and conditions in this permit except the facility/emissions unit descriptions contained in Sections A.1 through A.3 and Sections D, 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 citizens in accordance with the Clean Air Act.

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

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

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)]

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

B.7 Duty to Supplement and Provide Information [326 IAC 2-7-4(b)] [326 IAC 2-7-5(6)(E)] [326 IAC 2-7-6(6)]

(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. The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34). Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit or, for information claimed to be confidential, the Permittee may furnish such records directly to the U.S. EPA along with a claim of confidentiality. [326 IAC 2-7-5(6)(E)]

(b) 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 Compliance with Permit Conditions [326 IAC 2-7-5(6)(A)] [326 IAC 2-7-5(6)(B)]

(a) The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for:

(1) Enforcement action;

(2) Permit termination, revocation and reissuance, or modification; or

(3) Denial of a permit renewal application.

(b) Noncompliance with any provisions of this permit, except any provision specifically designated as not federally enforceable, constitutes a violation of the Clean Air Act.

(c) 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.

(d) 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.

B.9 Certification [326 IAC 2-7-4(f)] [326 IAC 2-7-6(1)] [326 IAC 2-7-5(3)(C)]

(a) Where specifically designated by this permit or required by an applicable requirement, any application forms, report, or compliance certification submitted shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

(b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification.

(c) A responsible official is defined at 326 IAC 2-7-1(34).

B.10 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 applicable terms and conditions contained in this permit, including emission limitations, standards, or work practices. The initial certification shall cover the time period from the date of final permit issuance through December 31 of the same year and shall be submitted in letter form no later than July 1 of the following year to the addresses listed below. Subsequent certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in letter form no later than July 1 of each year to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue,
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);

(5) Such other facts, as specified in Section D of this permit, as IDEM, OAQ, may require to determine the compliance status of the source.

The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

B.11 Preventive Maintenance Plan [326 IAC 2-7-5(1), (3) and (13)] [326 IAC 2-7-6(1) and (6)] [326 IAC 1-6-3]

(a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMP) within ninety (90) days after issuance of this permit, including the following information on each facility/emissions unit:

(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;

(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 PMP cannot be prepared and maintained within 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 Branch, Office of Air Quality
100 North Senate Avenue,
Indianapolis, Indiana 46204-2251

The PMP and the PMP extension notification do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(b) The Permittee shall implement the PMPs, including any required record keeping, as necessary to ensure that failure to implement a PMP does not cause or contribute to an exceedance of any limitation on emissions or potential to emit.

(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 or potential to emit. The PMP does not require the certification by the "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.12 Emergency Provisions [326 IAC 2-7-16]

(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/emissions unit 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, 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 Section), or
Telephone Number: 317-233-5674 (ask for Compliance Section)
Facsimile Number: 317-233-5967

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

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue,
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 the certification by the “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 the malfunction rule, 326 IAC 1-6 (except the requirement for a PMP in 326 IAC 1-6-3), for sources subject to 326 IAC 2-7 after the effective date of 326 IAC 2-7. This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.

(e) IDEM, OAQ, may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4(c)(9) be revised in response to an emergency.

(f) Failure to notify IDEM, OAQ, by telephone, facsimile, or other agreed upon method, 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/emissions units during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.

B.13 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 in 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 term "applicable requirements" shall have the meaning set forth in 326 IAC 2-7-1(6). 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) From the effective date of this permit, the Permittee's right to operate this source is pursuant to this Title V permit. All previously issued operating permits, including those listed below, are superseded by this permit. All operating permits that are currently in effect are hereby revoked by the issuance of this Title V Permit and are no longer in effect.

(1) OP 47-01-88-0072, issued on May 30, 1984;
(2) OP 47-01-88-0073, issued on May 30, 1984;
(3) OP 47-01-88-0074, issued on May 30, 1984;
(4) OP 47-01-88-0075, issued on May 30, 1984;
(5) OP 47-01-88-0076, issued on May 30, 1984;
(6) OP 47-01-88-0077, issued on May 30, 1984;
(7) OP 47-01-88-0078, issued on May 30, 1984;
(8) OP 47-01-88-0079, issued on May 30, 1984;
(9) OP 47-01-88-0080, issued on May 30, 1984;
(10) OP 47-01-92-0097, issued on July 22, 1987; and
(11) OP 47-04-92-0099, issued on March 30, 1988.

(c) Construction Permit CP093-4598-00002, issued on February 27, 1998, which allowed the source to burn waste tires as a fuel in their kilns, has been revoked. Subsequent amendments and modifications to that permit including A093-9623 issued April 29, 1998,

093-11248 issued September 9, 1999, and 093-11552 issued October 23, 2000 have also been revoked. The source is no longer permitted to burn waste tires.

(d) In addition to the nonapplicability determinations set forth in Sections D of this permit, the IDEM, OAQ has made the following nonapplicability determinations regarding this source:

(1) None of the petroleum storage tanks listed in Section A.3 of this permit are subject to the requirements of the New Source Performance Standard (NSPS) 326 IAC 12 and 40 CFR 60.110 (Subpart K), or 40 CFR 60.110a (Subpart Ka) because all the petroleum storage tanks have capacities less than 40,000 gallons.

(2) None of the storage tanks listed in Section A.3 of this permit are subject to the NSPS 326 IAC 12, 40 CFR 60.110b (Subpart Kb) because the tanks have capacities less than 10,500 gallons, or do not contain a substance categorized as volatile organic liquid (VOL).

(3) The quarry activities, the quarry material sizing facilities/emission units, and the raw material handling and storage facilities/emission units listed in this permit are not subject to the requirements of the NSPS 326 IAC 12, 40 CFR 60.670 (Subpart OOO) because they were constructed prior to the applicability date of August 31, 1983.

(4) None of the other facilities/emission units listed in this permit are subject to the requirements of the NSPS 326 IAC 12, 40 CFR 60.670 (Subpart OOO) because they are not affected facilities and/or this rule specifically exempts facilities that are subject to the requirements of the NSPS, 40 CFR 60.60 (Subpart F), and facilities which follow in the plant process any facility which is subject to the requirements of the NSPS, 40 CFR 60.60 (Subpart F).

(5) None of the facilities/emission units listed in this permit are subject to the requirements of the NSPS 326 IAC 12, 40 CFR 60.730 (Subpart UUU) because the source does not fit the definition of a mineral processing plant.

(6) Paragraphs #2 through #7 of exemption CP 093-9431-00002, issued August 19, 1999, list requirements pursuant to Indiana Solid Waste Regulations, 326 IAC 10 and 326 IAC 11. IDEM has not included these requirements in the Part 70 permit because IDEM, OAQ has determined that these conditions are not applicable requirements as defined by 326 IAC 2-7-1(6).

(e) 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.

(f) 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.

(g) 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.

(h) 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).

(i) 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)]

(j) 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)(7)]

B.14 Prior Permits Superseded [326 IAC 2-1.1-9.5]

(a) All terms and conditions of previous permits issued pursuant to permitting programs approved into the state implementation plan have been either

(1) incorporated as originally stated,

(2) revised, or

(3) deleted

by this permit.

(b) All previous registrations and permits are superseded by this permit.

B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-7-5(3)(C)(ii)]

(a) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

(b) Deviations from any permit requirements, the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue,
Indianapolis, Indiana 46204-2251

using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent.

(c) A deviation caused by an emergency shall be included in the Quarterly Deviation and Compliance Monitoring Report. (Additional requirements for emergencies are in Section B - Emergency Provisions.)

(d) 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.

B.16 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]

(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 permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated non-compliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require the certification by the "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.17 Permit Renewal [326 IAC 2-7-4] [326 IAC 2-7-3]

(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 the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue,
Indianapolis, Indiana 46204-2251

(b) Timely Submittal of Permit Renewal [326 IAC 2-7-4(a)(1)(D)]

(1) A timely renewal application is one that is:

(A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and

(B) 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.

(2) If IDEM, OAQ, upon receiving a timely and complete 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.

(c) Right to Operate After Application for Renewal [326 IAC 2-7-3]
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 denying the renewal application and all appeals of such denial have been exhausted, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ, any additional information identified as being needed to process the application.

(d) United States Environmental Protection Agency Authority [326 IAC 2-7-8(e)]
If IDEM, OAQ, fails to act in a timely way on a Part 70 permit renewal, the U.S. EPA may invoke its authority under Section 505(e) of the Clean Air Act to terminate or revoke and reissue a Part 70 permit.

B.18 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
Permits Branch, Office of Air Quality
100 North Senate Avenue,
Indianapolis, Indiana 46204-2251

Any such application shall be certified by the "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)]

(d) No permit amendment or modification is required for the addition, operation or removal of a nonroad engine, as defined in 40 CFR 89.2.

B.19 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)] [326 IAC 2-7-12(b)(2)]

(a) No Part 70 permit revision 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.20 Operational Flexibility [326 IAC 2-7-20] [326 IAC 2-7-10.5]

(a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b), (c), or (e), 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) Any preconstruction approval required by 326 IAC 2-7-10.5 has been obtained;

(3) The changes do not result in emissions which exceed the emissions allowable under 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
Permits Branch, Office of Air Quality
100 North Senate Avenue,
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

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 which document, on a rolling five (5) year basis, all such changes and emissions trading that are subject to 326 IAC 2-7-20(b), (c), or (e) and makes 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), (c)(1), and (e)(2).

(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 notifications required by subsections (a) and (b), which shall be submitted by the Permittee, do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(c) Emission Trades [326 IAC 2-7-20(c)]
The Permittee may trade increases and decreases in emissions in 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.

B.21 Source Modification Requirement [326 IAC 2-7-10.5]

A modification, construction, or reconstruction is governed by 326 IAC 2 and 326 IAC 2-7-10.5.

B.22 Inspection and Entry [326 IAC 2-7-6] [IC 13-14-2-2]

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/emission units, 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,utilizes any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.23 Transfer of Ownership or Operational Control [326 IAC 2-7-11]

(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 an administrative amendment to reflect 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
Permits Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

The application which shall be submitted by the Permittee does not require the certification by the "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.24 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)]

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

For the purpose of submitting compliance certifications or establishing whether or not the Permittee has violated or is in violation of any emission limitation, standard, or rule in Title 326 of the Indiana Administrative Code, nothing in Title 326 of the Indiana Administrative Code 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 emission limitation, standard, or rule, if the appropriate performance or compliance test procedure had been performed.

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) pounds per hour [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2(e)(2), particulate emissions from any process not exempt under 326 IAC 6-3-1(b) or (c) which has a maximum process weight rate less than 100 pounds per hour and the methods in 326 IAC 6-3-2(b) through (d) do not apply shall not exceed 0.551 pounds per hour.

C.2 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 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.3 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. 326 IAC 4-1-3(a)(2)(A) and (B) are not federally enforceable.

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

The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and 326 IAC 9-1-2. 326 IAC 9-1-2 is not federally enforceable.

C.5 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.6 Operation of Equipment [326 IAC 2-7-6(6)]

Except as otherwise provided by statute, rule or this permit, all air pollution control equipment listed in this permit and used to comply with an applicable requirement shall be operated at all times that the emission units vented to the control equipment are in operation.

C.7 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. 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.8 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61 Subpart M]

(a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.

(b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:

(1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or

(2) If there is a change in the following:

(A) Asbestos removal or demolition start date;

(B) Removal or demolition contractor; or

(C) Waste disposal site.

(c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).

(d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Asbestos Section, Office of Air Quality
100 North Senate Avenue,
Indianapolis, Indiana 46204-2251

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(e) Procedures for Asbestos Emission Control
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-4 emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.

(f) Demolition and renovation
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).

(g) Indiana Accredited Asbestos Inspector
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Accredited Asbestos inspector is not federally enforceable.

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

C.9 Performance Testing [326 IAC 3-6]

(a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue,
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 certification by the "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 certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(c) 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 source 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. The reports submitted by the Permittee do require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Compliance Requirements [326 IAC 2-1.1-11]

C.10 Compliance Requirements [326 IAC 2-1.1-11]

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.11 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

Unless otherwise specified in this permit, all monitoring requirements not already legally required shall be implemented within ninety (90) days of the original Part 70 permit issuance. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. If due to circumstances beyond its control, that equipment cannot be installed and operated within ninety (90) days, 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 Branch, Office of Air Quality
100 North Senate Avenue,
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 the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Unless otherwise specified in the approval for the new or modified facilities/emission units, compliance monitoring for new or modified facilities/emission units or facilities/emission units added or modified through a source modification shall be implemented when operation begins.

C.12 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 monitors (COMS) and related equipment.

(b) In the event that a breakdown of the continuous opacity monitoring equipment occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem.

(c) 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, timely 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 COM. A trained employee shall record whether emissions are normal or abnormal 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. Permittee may also use an independent contractor who has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(B) If abnormal emissions are noted during two (2) consecutive VE notations, the Permittee shall begin opacity observations in accordance with 40 CFR Part 60, Appendix A, Method 9, within four (4) hours of the second abnormal VE 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 COM, the Permittee shall provide certified opacity reader(s), who may be employees of the Permittee or independent contractors, to self-monitor opacity from the stack.

(A) Visible Emission readings shall be performed in accordance with 40 CFR Part 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 opacity readings may be discontinued once COM is online.

(3) All of the Method 9 opacity readings taken during this period shall be reported in the Quarterly Reports Summary of Opacity Emissions.

(d) Nothing in this permit, shall excuse the Permittee from complying with the requirements to operate a continuous opacity monitor system pursuant to 326 IAC 3-5 and 40 CFR 63, Subpart LLL.

C.13 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]

Any monitoring or testing required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60 Appendix A, 40 CFR 60 Appendix B, 40 CFR 63, or other approved methods as specified in this permit.

C.14 Pressure Gauge and Other Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

(a) Whenever a condition in this permit requires the measurement of pressure drop, voltage, current, or temperature across any part of the unit or its control device, the gauge or instrument employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent (±2%) of full scale reading.

(b) The Permittee may request the IDEM, OAQ approve the use of a pressure gauge or other instrument that does not meet the above specifications provided the Permittee can demonstrate an alternative pressure gauge or other instrument specification will adequately ensure compliance with permit conditions requiring the measurement of pressure drop or other parameters.

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

C.15 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

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

(a) The Permittee prepared and submitted written emergency reduction plans (ERPs) consistent with safe operating procedures on March 14, 2000.

(b) If the ERP is disapproved by IDEM, OAQ, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP.

(c) 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.16 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68 Subpart G]

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

C.17 Compliance Response Plan - Preparation, Implementation, Records, and Reports [326 IAC 2-7-5] [326 IAC 2-7-6]

(a) The Permittee is required to prepare a Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. If a Permittee is required to have an Operation, Maintenance and Monitoring (OMM) Plan under 40 CFR 60/63, such plans shall be deemed to satisfy the requirements for a CRP for those compliance monitoring conditions. A CRP shall be submitted to IDEM, OAQ upon request. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee, supplemented from time to time by the Permittee, maintained on site, and comprised of:

(1) Reasonable response steps that may be implemented in the event that a response step is needed pursuant to the requirements of Section D of this permit; and an expected time frame for taking reasonable response steps.

(2) If, at any time, the Permittee takes reasonable response steps that are not set forth in the Permittee=s current Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) Plan and the Permittee documents such response in accordance with subsection (e) below, the Permittee shall amend its Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) Plan to include such response steps taken.

The OMM Plan shall be submitted within the time frames specified by the applicable 40 CFR60/63 requirement.

(b) For each compliance monitoring condition of this permit, reasonable response steps shall be taken when indicated by the provisions of that compliance monitoring condition as follows:

(1) Reasonable response steps shall be taken as set forth in the Permittee=s current Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) Plan; or

(2) If none of the reasonable response steps listed in the Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) Plan is applicable or responsive to the excursion, the Permittee shall devise and implement additional response steps as expeditiously as practical. Taking such additional response steps shall not be considered a deviation from this permit so long as the Permittee documents such response steps in accordance with this condition.

(3) If the Permittee determines that additional response steps would necessitate that the emissions unit or control device be shut down, the IDEM, OAQ shall be promptly notified of the expected date of the shut down, the status of the applicable compliance monitoring parameter with respect to normal, and the results of the actions taken up to the time of notification.

(4) Failure to take reasonable response steps shall be considered deviation of the permit.

(c) The Permittee is not required to take any further response steps for any of the following reasons:

(1) A false reading occurs due to the malfunction of the monitoring equipment and prompt action was taken to correct the monitoring equipment.

(2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously

submitted a request for a minor permit modification to the permit, and such request has not been denied; or

(3) An automatic measurement was taken when the process was not operating; or

(4) The process has already returned or is returning to operating within "normal" parameters and no response steps are required.

(d) When implementing reasonable steps in response to a compliance monitoring condition, if the Permittee determines that an exceedance of an emission limitation has occurred, the Permittee shall report such deviations pursuant to Section B-Deviations from Permit Requirements and Conditions.

(e) The Permittee shall record all instances when, in accordance with Section D, response steps are taken. In the event of an emergency, the provisions of 326 IAC 2-7-16 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.

(f) Except as otherwise provided by a rule or provided specifically in Section D, all monitoring as required in Section D shall be performed when the emission unit is operating, except for time necessary to perform quality assurance and maintenance activities.

C.18 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 take appropriate response actions. Upon request, the Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility/emissions unit while the response actions are being implemented.

(b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one-hundred and twenty (120) 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 the certification by the "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.19 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) The Permittee shall submit an annual emission statement certified pursuant to the requirements of 326 IAC 2-6, that must be received by July 1 of each year and must comply with the minimum requirements specified in 326 IAC 2-6-4. The annual emission statement shall meet the following requirements:

(1) Indicate estimated actual emissions of criteria pollutants from the source, in compliance with 326 IAC 2-6 (Emission Reporting);

(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 purposes of Part 70 fee assessment.

(b) The annual emission statement covers the twelve (12) consecutive month time period starting January 1 and ending December 31. The annual emission statement must be submitted to:

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

The emission statement does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(c) The annual emission statement 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.20 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6] [326 IAC 2-2]

(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. 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, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

(c) If there is a reasonable possibility that a "project" (as defined in 326 IAC 2-2-1(qq)) at an existing emissions unit, other than projects at a Clean Unit (or at a source with Plant-wide Applicability Limitation (PAL)), which is not part of a "major modification" (as defined in 326 IAC 2-2-1(ee)) may result in significant emissions increase and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1(rr)), the Permittee shall comply with the following:

(1) Before beginning actual construction of the "project" (as defined in 326 IAC 2-2-1(qq)) 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(rr)(2)(A)(iii) and
(iv) An explanation for why the amount was excluded, and any netting calculations, if applicable.

(2) 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

(3) 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 operation 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.21 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11][326 IAC 2-2]

(a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
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) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(e) The first report shall cover the period commencing on the date of issuance of this permit 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.

(f) If the Permittee is required to comply with the recordkeeping provisions of (c) in Section C – General Record Keeping Requirements for any "project" (as defined in 326 IAC 2-2-1(qq)) 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) 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(xx), 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).

(g) 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 (c)(2) and (3) 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).

(4) Any other information that the Permittee wishes to include in the report.

Reports required in this part shall be submitted to:

Indiana Department of Environmental Management
Air Compliance Section, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

(h) 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 IDEM, OAQ under 326 IAC 17.1.

C.22 NESHAP Notification and Reporting Requirements [40 CFR Part 63, Subparts A and LLL]

The Permittee shall comply with all reporting provisions specified in 40 CFR Part 63, Subpart LLL, and in particular:

(a) The Permittee has submitted an initial notification in accordance with 40 CFR 63.9(b) (Subpart A, General Provisions) on October 11, 1999 to U.S. EPA and IDEM. The Permittee provided the following information:

(1) The name and address of the Permittee;

(2) The address (i.e., physical location) of the affected source;

(3) An identification of the relevant standard, or other requirement, that is the basis of the notification and the source's compliance date;

(4) A brief description of the nature, size, design, and method of operation of the source, including its operating design capacity and an identification of each point of emission for each hazardous air pollutant, or if a definitive identification is not yet possible, a preliminary identification of each point of emission for each hazardous air pollutant; and

(5) A statement of whether the affected source is a major source or an area source.

(b) The Permittee shall submit a notification of performance tests, as required by 40 CFR 63.7 and 40 CFR 63.9(e).

(c) The Permittee shall submit a notification of opacity and visible emission observations as required by 40 CFR 63.1349 in accordance with 40 CFR 63.6(h)(5) and 40 CFR 63.9(f).

(d) The Permittee shall submit notification, as required by 40 CFR 63.9(g), of the date that continuous emission monitor performance evaluation required by 40 CFR 63.8(e) is scheduled to begin.

(e) The Permittee shall submit notification of compliance status, as required by 40 CFR 63.9(h).

(f) The notification(s) as required in this section shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue,
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

Stratospheric Ozone Protection

C.23 Compliance with 40 CFR 82 and 326 IAC 22-1

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 the standards for recycling and emissions reduction:

(a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.

(b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.

(c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

SECTION D.1 FACILITY/EMISSION UNIT OPERATION CONDITIONS

Facility/Emissions Unit Description [326 IAC 2-7-5(15)]

The quarry activities, as follows:

(1) Drilling/blasting, hauling, handling and storage, identified as F01, commenced prior to 1971, with associated fugitive particulate matter (PM) emissions.

The quarry material sizing facilities/emissions units, as follows:

(1) One (1) primary crusher, identified as EU01, constructed in 1965, with a nominal rate of 975 tons per hour, with PM emissions controlled by one (1) baghouse, identified as QDC2, and exhausting to one (1) stack, identified as S-QDC2.
(2) One (1) surge bin and transfer system, identified as EU02, constructed in 1965, with a nominal rate of 975 tons per hour, with PM emissions controlled by one (1) baghouse, identified as QDC3, and exhausting to one (1) stack, identified as S-QDC3.
(3) One (1) secondary crusher, identified as EU03, constructed in 1965, with a nominal rate of 975 tons per hour, with PM emissions controlled by one (1) baghouse, identified as QDC4, and exhausting to one (1) stack, identified as S-QDC4.
(4) One (1) tertiary crusher, identified as EU04, constructed in 1965, with a nominal rate of 975 tons per hour, with PM emissions controlled by one (1) baghouse, identified as QDC4, and exhausting to one (1) stack, identified as S-QDC4.
(5) One (1) north screen house, identified as EU05, constructed in 1965, with a nominal rate of 975 tons per hour, with PM emissions controlled by one (1) baghouse, identified as QDC5, and exhausting to one (1) stack, identified as S-QDC5.
(6) One (1) south screen house, identified as EU06, constructed in 1965, with a nominal rate of 975 tons per hour, with PM emissions controlled by one (1) baghouse, identified as QDC6, and exhausting to one (1) stack, identified as S-QDC6.
(7) One (1) belt #7 to belt #8 conveyor transfer point, identified as EU07, constructed in 1965, with a nominal rate of 975 tons per hour, with PM emissions controlled by one (1) baghouse, identified as QDC7, and exhausting to one (1) stack, identified as S-QDC7.
(8) One (1) belt #8 to belt #9 conveyor transfer point, identified as EU08, constructed in 1965, with a nominal rate of 975 tons per hour, with PM emissions controlled by one (1) baghouse, identified as QDC8, and exhausting to one (1) stack, identified as S-QDC8.
(9) One (1) belt #9 to belt #10 conveyor transfer point, identified as F02, constructed in 1965, with a nominal rate of 975 tons per hour, using seasonal water suppression to control PM emissions, and exhausting directly to the atmosphere.

The cement kiln dust storage, disposal, mining, and handling facilities/emissions units, as follows:

(1) One (1) cement kiln dust (CKD) bin, identified as EU24, constructed in 1959, with a nominal rate of 100 tons per hour, with PM emissions controlled by one (1) baghouse, identified as KDC7, and exhausting to one (1) stack, identified as S-KDC7.
(2) One (1) CKD truck unloading system, identified as EU24A, constructed in 1959, with a nominal rate of 60 tons per hour, with PM emissions controlled by one (1) baghouse, identified as KDC7A, and exhausting to one (1) stack, identified as S-KDC7A.
(3) One (1) CKD mixer, identified as EU24B, constructed in 1999, with a nominal rate of 104 tons per hour, with PM emissions controlled by one (1) baghouse, identified as KDC7B, and exhausting to one (1) stack, identified as S-KDC7B.
(4) One (1) CKD truck loadout, identified as F07, constructed in 1999, with a nominal rate of 104 tons per hour, with PM emissions uncontrolled, and exhausting directly to the atmosphere.
(5) CKD disposal, and mining facilities/emission units, identified as F05, constructed in 1999, with particulate matter emissions uncontrolled, and exhausting directly to the atmosphere.

(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.1.1 Particulate [326 IAC 6-3-2]

(a) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the quarry material sizing facilities/ emissions units (EU01 through EU08 and F02) shall not exceed 77.3 pounds per hour (total for all facilities/emission units combined) when operating at a process weight rate of 975 tons per hour.

The pounds per hour limitation was calculated with the following equation:

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

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

When the process weight rate exceeds 200 tons per hour, the maximum allowable emissions may exceed the pounds per hour limitation 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 one thousand (1,000) pounds of gases.

(b) Pursuant to minor source modification 093-11313 issued November 9, 1999 for the CKD mixer (EU24B) and 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes) for all units, the allowable PM emission rate from the cement kiln dust (CKD) storage, disposal, mining, and handling facilities/emissions units (EU24, EU24A, and EU24B) shall not exceed 51.3 pounds per hour (total for all facilities/emission units combined) when operating at a process weight rate of 100 tons per hour.

The pounds per hour limitation was calculated with the following equation:

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

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

D.1.2 Determinations of Nonapplicability [40 CFR 60, Subparts A and F] [40 CFR 63, Subparts A and LLL]

(a) None of the facilities/emission units listed in this section 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 that were constructed or modified after the applicability date of August 17, 1971.

(b) None of the quarry facilities/emission units or quarry material sizing facilities/emission units, or the cement kiln dust storage, disposal, mining, and handling facilities/emission units listed in this section 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.

D.1.3 Prevention of Significant Deterioration (PSD) [326 IAC 2-2]

(a) Pursuant to minor source modification 093-11313 issued November 9, 1999, and T093-5990-00002, issued on December 30, 2002, and in order to render the requirements of PSD not applicable, the following conditions shall apply:

(1) The combined PM emissions from the CKD mixer (EU24B), the CKD disposal

and mining facilities (F05), and the truck loadout (F07) shall not exceed 5.68 pounds per hour.

(2) The combined PM_{10} emissions from the CKD mixer (EU24B), the CKD disposal and mining facilities (F05), and the truck loadout (F07) shall not exceed 3.40 pounds per hour.

These limitations will result in PM and PM_{10} emissions of less than 25 and 15 tons per year, respectively. Therefore, the requirements of 326 IAC 2-2 (PSD) do not apply.

(b) Pursuant to Significant Permit Modification 093-16851-00002 issued on July 11, 2003, and Significant Permit Modification 093-18649-00002 issued in 2004, in order to render the requirements of 326 IAC 2-2 (PSD) not applicable, the following conditions shall apply upon startup of either preheater Kilns #1 or #2:

(1) The Primary crusher (EU01), the Surge Bin and Transfer System (EU02), the Secondary Crusher (EU03), the Tertiary Crusher (EU04), the North Screen House (EU05), the South Screen House (EU06), the Belt #7 to Belt #8 Conveyor Transfer Point (EU07) and the Belt #8 to Belt #9 Conveyor transfer point (EU08) shall each be limited to 2,500 hours of operation per 12 consecutive month period with compliance determined at the end of each month.

(2) PM and PM_{10} emissions from baghouse QDC2 controlling the Primary Crusher (EU01) shall each not exceed 0.68 pounds per hour.

(3) PM and PM_{10} emissions from baghouse QDC3 controlling the Quarry Surge Bin and Transfer System (EU02) shall each not exceed 0.50 pounds per hour.

(4) PM and PM_{10} emissions from baghouse QDC7 controlling Belt #7 to Belt #8 Conveyor Transfer Point (EU07) shall each not exceed 0.44 pounds per hour.

(5) PM and PM_{10} emissions from baghouse QDC8 controlling Belt #8 to Belt #9 Conveyor Transfer Point (EU08) shall each not exceed 0.44 pounds per hour.

(6) PM and PM_{10} emissions from baghouse QDC4 controlling the Secondary Crusher (EU03) and the Tertiary Crusher (EU04) shall each not exceed 0.72 pounds per hour.

(7) PM and PM_{10} emissions from baghouse QDC6 controlling the South Screen House (EU06) shall each not exceed 0.79 pounds per hour.

(8) PM and PM_{10} emissions from baghouse QDC5 controlling the North Screen House (EU05) shall each not exceed 0.18 pounds per hour.

(9) PM and PM_{10} emissions from baghouse KDC7 controlling the Cement Kiln Dust Bin (EU24) shall each not exceed 0.89 pounds per hour.

(10) PM and PM_{10} emissions from baghouse KDC7A controlling the CKD Truck Unloading System (EU24A) shall each not exceed 0.36 pounds per hour.

(11) PM and PM_{10} emissions from baghouse KDC7B controlling Mixer (EU24B) shall each not exceed 0.54 pounds per hour.

These limits ensure that the PM and PM_{10} emissions increase from the modification permitted in Significant Permit Modification 093-16851-00002 issued on July 11, 2003,

and Significant Permit Modification 093-18649-00002 issued in 2004 will not exceed 25 and 15 tons per year, respectively. Therefore, the requirements of 326 IAC 2-2 (PSD) are not applicable to these modifications.

D.1.4 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for the control devices listed in this section.

Compliance Determination Requirements

D.1.5 Particulate Control

Pursuant to minor source modification 093-11313 issued November 9, 1999, for the CKD mixer (EU24B), and in order for all units to comply with Conditions D.1.1 and D.1.3, except as otherwise provided by statute, rule or this permit, each baghouse listed in this section for particulate control shall be in operation at all times when its associated facility/emissions unit is in operation.

D.1.6 Testing requirement [326 IAC 2-1.1-11]

To verify compliance with condition D.1.3(b), the permittee shall, within 60 days after achieving the maximum capacity but no later than 180 days after startup of preheater Kiln #1 (EU15) and Kiln #2 (EU16), perform PM and PM_{10} testing on the Secondary Crusher (EU03), the Tertiary Crusher (EU04), and the North Screen House (EU05) utilizing methods as approved by the Commissioner. Testing 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. PM_{10} includes filterable and condensible PM_{10}.

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

D.1.7 Visible Emissions Notations

Visible emission notations of all the baghouse stack exhausts shall be performed once per shift during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.

(a) 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.

(b) 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.

(c) 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.

(d) The Compliance Response Plan for these units shall contain troubleshooting contingency and response steps for when an abnormal emission is observed or when visible emissions are observed crossing the property line. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

D.1.8 Parametric Monitoring

The Permittee shall record the total static pressure drop across each baghouse listed in this section, at least once per shift when the associated facility/emissions unit is in operation. When for any one reading, the pressure drop across a baghouse is outside the normal range of 1.0 and 8.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Prepara-

tion, Implementation, Records, and Reports. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge and Other 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.1.9 Baghouse Inspections

An inspection shall be performed each calendar quarter of all bags controlling the processes listed in this section when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting to the indoors. Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.

D.1.10 Broken or Failed Bag Detection

In the event that bag failure has been observed.

(a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if there are no visible emissions from the emission unit, control device, or stack, or if the event qualifies as an emergency and the Permittee satisfies the emergency provisions of this permit (Section B- Emergency Provisions). Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

(b) For single compartment baghouses, if failure is indicated by a significant drop in the baghouse's pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if bag failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, dust traces, or triboflows, then failed units and the associated process will be shut down immediately until the failed units have 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).

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

D.1.11 Record Keeping Requirements

(a) To document compliance with Condition D.1.3(b)(1), the Permittee shall maintain records of the Primary crusher (EU01), the Surge Bin and Transfer System (EU02), the Secondary Crusher (EU03), the Tertiary Crusher (EU04), the North Screen House (EU05), the South Screen House (EU06), the Belt #7 to Belt #8 Conveyor Transfer Point (EU07) and the Belt #8 to Belt #9 Conveyor transfer point (EU08) operating hours.

(b) To document compliance with Condition D.1.7, the Permittee shall maintain records of visible emission notations of the baghouse stack exhausts once per shift.

(c) To document compliance with Condition D.1.8, the Permittee shall maintain records of the differential static pressure of each baghouse once per shift.

(d) To document compliance with Condition D.1.9, the Permittee shall maintain records of the results of the inspections required under Condition D.1.9.

(e) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.12 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.1.3(b)(1) shall be submitted to the address listed in Section C - General Reporting Requirements, using the reporting forms located at the end of this permit, or the equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

SECTION D.2 FACILITY/EMISSION UNIT OPERATION CONDITIONS

Facility/Emissions Unit Description [326 IAC 2-7-5(15)]

The raw material handling and storage facilities/emissions units, as follows:

(1) A conveying system to transport raw material to storage, identified as EU09, constructed in 1960, with a nominal rate of 200 tons per hour, with PM emissions controlled by one (1) baghouse, identified as RMDC1 and exhausting to one (1) stack, identified as S-RMDC1.

(2) One (1) shale crusher, identified as EU10, constructed in 1961, with a nominal rate of 200 tons per hour, with PM emissions controlled by one (1) baghouse, identified as RMDC2, and exhausting to one (1) stack, identified as S-RMDC2.

(3) One (1) material storage building, identified as F03, constructed in 1959-1960, with fugitive emissions from various conveyors and storage piles controlled by partial enclosure and exhausting directly to the atmosphere.

(4) One (1) coal unloading building, identified as F08, constructed in 1960, with particulate matter emissions controlled by partial enclosure and exhausting directly to the atmosphere.

(5) One (1) coal pile, identified as F04, constructed prior to 1971, with particulate matter emissions uncontrolled, and exhausting directly to the atmosphere.

(6) Raw material stockpiles collectively, identified as F09, storage commencing prior to 1971, used for temporary storage of various feed materials, including gypsum, foundry sand, mill scale, and slag, with particulate matter emissions uncontrolled, and exhausting to the atmosphere.

Kiln #1 and Kiln #2 Alternative Fuel Delivery Systems as follows:

(1) One (1) Kiln #1 alternative fuel delivery system, identified as F19, consisting of a partially enclosed hopper exhausting to the atmosphere and a series of totally enclosed conveyors, with a nominal throughput of 87,600 tons per year.

(2) One (1) Kiln #2 alternative fuel delivery system, identified as F20, consisting of a partially enclosed hopper exhausting to the atmosphere and a series of totally enclosed conveyors, with a nominal throughput of 87,600 tons per year.

The raw mill facilities/emissions units, as follows:

(1) One (1) raw mill #1, identified as EU11, constructed in 1961, with a nominal rate of 100 tons per hour and including a natural gas-fired burner, identified as EU11A, with a maximum heat input capacity of 20 million British thermal units (MMBtu) per hour, with PM emissions controlled by one (1) baghouse, identified as RMDC3, and exhausting to one (1) stack, identified as S-RMDC3.

(2) One (1) raw mill #2, identified as EU12, constructed in 1961, with a nominal rate of 100 tons per hour and including a natural gas-fired burner, identified as EU12A, with a maximum heat input capacity of 20 million British thermal units (MMBtu) per hour, with PM emissions controlled by one (1) baghouse, identified as RMDC4, and exhausting to one (1) stack, identified as S-RMDC4.

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

Insignificant Activities, as follows:

(1) Three (3) coal mills, with nominal rates of 5, 6, and 6 tons per hour, with particulate matter emissions controlled by total enclosure, and exhausting to the kilns.

(2) One coal feeder conveyor and one coal unloading conveyor, with nominal rates of 250 tons per hour and 260 tons per hour, respectively, constructed prior to August 17, 1971, with particulate matter emissions controlled by total enclosure.

(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.2.1 Particulate [326 IAC 6-3-2]

(a) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the raw material conveying system (EU09) shall not exceed 58.5 pounds per hour when operating at a process weight rate of 200 tons per hour.

(b) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the shale crusher (EU10) shall not exceed 58.5 pounds per hour when operating at a process weight rate of 200 tons per hour.

(c) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the raw mill #1 (EU11 and EU11A) shall not exceed 51.3 pounds per hour when operating at a process weight rate of 100 tons per hour.

(d) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the raw mill #2 (EU12 and EU12A) shall not exceed 51.3 pounds per hour when operating at a process weight rate of 100 tons per hour.

The pounds per hour limitations for (a) through (d) were calculated with the following equation:

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

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

(e) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emissions rate from the Kiln #1 alternative fuel delivery system (F19), shall not exceed 19.2 pounds per hour when operating at a process weight rate of 10 tons per hour.

(f) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emissions rate from the Kiln #2 alternative fuel delivery system (F20), shall not exceed 19.2 pounds per hour when operating at a process weight rate of 10 tons per hour.

The pounds per hour limitations for (e) and (f) were calculated with the following equation:

Interpolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

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

D.2.2 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 material storage building (F03), the raw mills (EU11, EU11A, EU12 and EU12A), and each conveying system transfer point associated with the Kiln #1 and Kiln #2 alternative fuel delivery systems (F19) and (F20) described in this section except when otherwise specified in 40 CFR Part 63, Subpart LLL.

D.2.3 NESHAP Emissions Limitation [40 CFR 63, Subpart LLL]

Pursuant to 40 CFR 63.1348 (Emissions Standards and Operating Limits), the visible emissions from the material storage building (F03), each of the raw mills (EU11, EU11A, EU12 and EU12A), and each conveying system transfer point associated with the Kiln #1 and Kiln #2 alternative fuel delivery systems (F19) and (F20) shall each not exceed ten percent (10%) opacity.

D.2.4 Sulfur Dioxide (SO_2) [326 IAC 7-1.1] [326 IAC 7-2-1]

Pursuant to minor source modification 093-10597 issued March 1, 1999, the two (2) natural gas-fired burners (EU11A and EU12A) shall combust only natural gas. Therefore, the requirements of 326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations) will not apply to the natural gas-fired burners (EU11A and EU12A).

D.2.5 NSPS for Portland Cement Plants [326 IAC 12] [40 CFR 60, Subpart F]

Pursuant to minor source modification 093-10597 issued March 1, 1999, the natural gas-fired burners (EU11A and EU12A) were not to operate at the same time as the then existing 37 million Btu per hour coal-fired stoker. Therefore, the addition of the natural gas-fired burners did not result in an emissions increase for the system and the requirements of 326 IAC 12 (New Source Performance Standards) and 40 CFR Part 60, Subparts A and F, will not apply to the raw mills (EU11 and EU12) or the natural gas-fired burners (EU11A and EU12A) as a result of this modification.

D.2.6 Determinations of Nonapplicability [40 CFR 60, Subparts A and F] [40 CFR 63, Subparts A and LLL] [40 CFR 60, Subpart Y]

(a) The raw material handling and storage facilities/emission units (EU09, EU10, F03, F04, F08, and F09) 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 and have not been modified since the applicability date, or they are not considered affected facilities under the rule.

(b) The conveying system (EU09), the shale crusher (EU10), the coal pile (F04), the coal unloading building (F08), the raw material stockpiles (F09), and the insignificant coal mills are not subject to the requirements of the National Emissions Standards for Hazardous Air Pollutants (NESHAP) 40 CFR 63 Subparts A and LLL, because these facilities/ emission units are not affected facilities under the regulation.

(c) The coal mills and the coal conveyors are not subject to the requirements of the New Source Performance Standard, 326 IAC 12 and 40 CFR 60, Subpart Y because they are completely enclosed and there is no discharge to the atmosphere from the coal mills.

(d) The coal pile (F04) is not subject to the requirements of the New Source Performance Standard, 326 IAC 12 and 40 CFR 60, Subpart Y because it is not considered an affected facility under the regulation. Additionally, facilities/emission units EU09, EU10, F03, F08, F09, EU11A, EU12A, EU11, EU12, the three insignificant coal mills, the coal feeder conveyor and the coal unloading conveyor are not subject to the requirements of the New Source Performance Standard, 326 IAC 12 and 40 CFR 60, Subpart Y because they are not affected facilities under the rule or they were not constructed or modified after October 24, 1974.

D.2.7 Prevention of Significant Deterioration (PSD) [326 IAC 2-2]

Pursuant to Significant Permit Modification 093-16851-00002 issued in 2003, in order to render the requirements of 326 IAC 2-2 (PSD) not applicable to this modification, the following conditions shall apply upon startup of either preheater Kilns #1 or #2:

(a) The Conveying System to Transport Raw Material to Storage (EU09) and the Shale Crusher (EU10) shall each be limited to 2,500 hours of operation per 12 consecutive month period with compliance determined at the end of each month.

(b) PM and PM_{10} emissions from baghouse RMDC1 controlling the Conveying System to Transport Raw Material to Storage (EU09) shall each not exceed 0.27 pounds per hour.

(c) PM and PM_{10} emissions from baghouse RMDC2 controlling the Shale Crusher (EU10) shall each not exceed 1.44 pounds per hour.

(d) PM and PM_{10} emissions from baghouse RMDC3 controlling Raw Mill #1 (EU11) shall each not exceed 3.50 pounds per hour.

(e) PM and PM_{10} emissions from baghouse RMDC4 controlling Raw Mill #2 (EU12) shall each not exceed 4.51 pounds per hour.

These limits ensure that the PM and PM_{10} emissions increase from the modification permitted in Significant Permit Modification 093-16851-00002 issued on July 11, 2003, and Significant Permit Modification 093-18649-00002 issued in 2004 will not exceed 25 and 15 tons per year, respectively. Therefore, the requirements of 326 IAC 2-2 (PSD) are not applicable to these modifications.

D.2.8 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for the control devices listed in this section. If the Operations and Maintenance Plan required by Condition D.2.11 is developed in accordance with Section B - Preventive Maintenance Plan, then once the Operations and Maintenance Plan has been developed, it shall satisfy this condition.

Compliance Determination Requirements

D.2.9 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11] [40 CFR 63, Subpart LLL]

(a) Within 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 limit established in Condition D.2.3 for the material storage building (F03) and the raw mills (EU11, EU11A, EU12, EU12A), by conducting a test in accordance with 40 CFR 63.1349 and Method 9 of 40 CFR Part 60, Appendix A. Testing shall be conducted in accordance with Section C - Performance Testing.

(b) Within 60 days after achieving maximum capacity but no later than 180 days after startup of preheater Kilns #1 and #2, in order to demonstrate compliance with Condition D.2.1

and D.2.7, the Permittee shall perform PM and PM_{10} testing on the Raw Mills (EU11, EU11A, EU12 and EU12A) utilizing methods as approved by the Commissioner. These tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing 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. PM_{10} includes filterable and condensible PM_{10}.

(c) Within 180 days after start up of each of the alternative fuel delivery systems (F19 and F20), the Permittee shall demonstrate initial compliance with the limit established in Condition D.2.3 by conducting a test in accordance with 40 CFR 63.1349(b)(2) and Method 9 of 40 CFR Part 60, Appendix A. Testing shall be conducted in accordance with Section C - Performance Testing.

Pursuant to 40 CFR 63.1349(c), the Method 9 performance tests required in paragraphs (a) and (c) above shall each be repeated at least once every five years from the date of the valid compliance demonstration.

D.2.10 Particulate Control

Except as otherwise provided by statute, rule or this permit, each baghouse listed in this section for particulate control shall be in operation at all times when its associated facility/emissions unit is in operation, in order to comply with Conditions D.2.1, D.2.3 and D.2.7.

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

D.2.11 NESHAP Monitoring Requirements [40 CFR 63, Subpart LLL]

(a) Pursuant to 40 CFR 63.1350 (Monitoring Requirements), the Permittee shall prepare a written operations and maintenance plan for the material storage building (F03) and each of the raw mills (EU11, EU11A, EU12 and EU12A) 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; and for the conveyor transfer points associated with the Kiln #1 alternative fuel delivery system (F19) and the conveyor transfer points associated with the Kiln #2 alternative fuel delivery system (F20), upon startup of operations.

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.2.3; and

(2) Procedures to be used to periodically monitor the material storage building (F03), and the conveyor transfer points associated with the Kiln #1 and Kiln #2 alternative fuel delivery systems (F19 and F20), 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).

The requirement to conduct Method 22 visible emissions monitoring under Section D.2.11(a)(2) above, shall not apply to any totally enclosed conveying system transfer point that is operated and maintained as total enclosures on a continuing basis in accordance with the facility operations and maintenance plan, regardless of the location of the transfer point. "Totally enclosed conveying system transfer point" shall mean a conveying system transfer point that is enclosed on all sides, top, and bottom.

If any partially enclosed or unenclosed conveying system transfer point is located in a building, the Permittee shall have the option to conduct a Method 22 visible emissions monitoring test according to the requirements of paragraphs (a)(2)(A) through (D) of this section for each such conveying system transfer point located within the building, or for the building itself, according with the paragraph below.

If visible emissions from a building are monitored, the requirements of paragraphs (a)(2)(A) through (D) of this section apply to the monitoring of the building, and the Permittee shall also test visible emissions from each side, roof and vent of the building for at least 1 minute. The test must be conducted under normal operating conditions.

Failure to comply with any provision of the operations and maintenance plan shall be a violation of the standard. The contents of the operations and maintenance plan are not included in this permit and may be modified by the Permittee without modification or amendment of this permit.

(b) Pursuant to 40 CFR 63.1350 (Monitoring Requirements), on and after June 14, 2002, the Permittee shall monitor opacity from the raw mills (EU11, EU11A, EU12 and EU12A) 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 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:

(1) 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).

(2) Within twenty-four (24) hours of the end of the Method 22 test in which visible emissions were observed, conduct a follow-up Method 22 test of each stack from which visible emissions were observed during the previous Method 22 test. If visible emissions are observed during the follow-up Method 22 test from any stack from which visible emissions were observed during the previous Method 22 test, conduct a visual opacity test of each stack from which visible emissions were observed during the follow-up Method 22 test in accordance with 40 CFR Part 60, Appendix A, Method 9. The duration of the Method 9 test shall be thirty minutes.

D.2.12 Visible Emissions Notations

Visible emission notations of all of the baghouse stack exhausts controlling the raw mills (EU11, EU11A, EU12 and EU12A), shall be performed once per day during normal daylight operations. Visible emission notations of all other baghouse stack exhausts shall be performed once per shift during normal daylight operations. A trained employee shall record whether emissions from the stacks are normal or abnormal.

(a) 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.

(b) 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.

(c) 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.

(d) On days that the NESHAP monitoring required in Condition D.2.11 is performed, the Permittee may use those results to satisfy the requirements of this condition for the units subject to the NESHAP.

(e) The Compliance Response Plan for these units shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

D.2.13 Parametric Monitoring

The Permittee shall record the total static pressure drop across each baghouse controlling the raw mills (EU11, EU11A, EU12 and EU12A) at least once per day when the associated facility/ emissions unit is in operation. The Permittee shall record the total static pressure drop across all other baghouses listed in this section, at least once per shift when the associated facility/ emissions unit is in operation. When for any one reading, the pressure drop across each baghouse is outside the normal range of 1.0 and 8.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge and Other 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.2.14 Baghouse Inspections

An inspection shall be performed each calendar quarter of all bags controlling the processes listed in this section when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting to the indoors. Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.

D.2.15 Broken or Failed Bag Detection

In the event that bag failure has been observed.

(a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if there are no visible emissions from the emission unit, control device, or stack, or if the event qualifies as an emergency and the Permittee satisfies the emergency provisions of this permit (Section B- Emergency Provisions). Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

(b) For single compartment baghouses, if failure is indicated by a significant drop in the baghouse's pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if bag failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, dust traces, or triboflows, then failed units and the associated process will be shut down immediately until the failed units have 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).

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

D.2.16 Record Keeping Requirements

(a) To document compliance with Condition D.2.12, the Permittee shall maintain records of visible emission notations of the baghouse stack exhausts controlling the raw mills (EU11, EU11A, EU12 and EU12A) once per day and all other baghouse stack exhausts once per shift.

(b) To document compliance with Condition D.2.13, the Permittee shall maintain records of the differential static pressure of each baghouse controlling the raw mills (EU11, EU11A, EU12 and EU12A) once per day and all other baghouses once per shift.

(c) To document compliance with Condition D.2.14, the Permittee shall maintain records of the results of the inspections required under Condition D.2.14.

(d) On and after the NESHAP 40 CFR 63, Subpart LLL compliance date, to document compliance with the NESHAP, 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 60.1355(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:

(A) All documentation supporting initial notifications and notifications of compliance status under 40 CFR 63.9.

(B) All records of applicability determination, including supporting analyses.

(e) To document compliance with Condition D.2.7(a), the Permittee shall maintain records of the Conveying System to Transport Raw Material to Storage (EU09) and the Shale Crusher (EU10) operating hours.

(f) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.2.17 Reporting Requirements

(a) 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.2.11 for the material storage building (F03) and each of the raw mills (EU11, EU11A, EU12 and EU12A) 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; and the plans required for the conveyor transfer points associated with the Kiln #1 alternative fuel delivery system (F19) and the conveyor transfer points associated with the Kiln #2 alternative fuel delivery system (F20) shall be submitted to IDEM, OAQ and U.S. EPA upon startup of each operation.

(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, 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) 233-5674 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.

(b) In addition to being submitted to the address listed in Section C - General Reporting Requirements, all reports and the operations and maintenance plan 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), the reports submitted by the Permittee shall include the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

(c) A quarterly summary of the information to document compliance with Condition D.2.7(a) shall be submitted to the address listed in Section C - General Reporting Requirements, using the reporting forms located at the end of this permit, or the equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

SECTION D.3 FACILITY/EMISSION UNIT OPERATION CONDITIONS

Facility/Emissions Unit Description [326 IAC 2-7-5(15)]

The raw mill storage facilities/emissions units, as follows:

(1) Blending bins, identified as EU13, constructed in 1961, with a combined nominal rate of 250 tons per hour, with PM emissions controlled by two (2) baghouses, identified as RMDC5 and RMDC6, and each exhausting to separate stacks, identified as S-RMDC5 and S-RMDC6, respectively.
(2) Kiln supply silos, identified as EU14, constructed in 1961, with a combined nominal rate of 250 tons per hour, with PM emissions controlled by two (2) baghouses, identified as RMDC7 and RMDC8, and each exhausting to separate stacks, identified as S-RMDC7 and S-RMDC8, respectively.
(3) One (1) kiln feed bin #1, identified as EU18, constructed in 1959, with a nominal rate of 66 tons per hour, with PM emissions controlled by one (1) baghouse, identified as KDC1, and exhausting to one (1) stack, identified as S-KDC1.
(4) One (1) kiln feed bin #2, identified as EU20, constructed in 1959, with a nominal rate of 66 tons per hour, with PM emissions controlled by one (1) baghouse, identified as KDC3, and exhausting to one (1) stack, identified as S-KDC3.
(5) One (1) kiln feed bin #3, identified as EU22, constructed in 1974, with a nominal rate of 73 tons per hour, with PM emissions controlled by one (1) baghouse, identified as KDC5, and exhausting to one (1) stack, identified as S-KDC5.

The clinker handling facilities/emissions units, as follows:

(1) One (1) south storage drag, identified as EU25, constructed in 1974, with a nominal rate of 120 tons per hour, with PM emissions controlled by one (1) baghouse, identified as FDC1, and exhausting to one (1) stack, identified as S-FDC1.
(2) One (1) north clinker tower, identified as EU26a, constructed in 1959, with a nominal rate of 120 tons per hour, with PM emissions controlled by one (1) baghouse, identified as FDC2, and exhausting to one (1) stack, identified as S-FDC2.
(3) One (1) North storage drag, identified as EU26b, with a nominal rate of 120 tons per hour, with PM emissions controlled by one (1) baghouse, identified as FDC2, constructed in 1959, and exhausting to one (1) stack, identified as S-FDC2.
(4) One (1) scrap bin clinker ladder, identified as EU26c, constructed in 1993, with a nominal rate of 120 tons per hour, with PM emissions controlled by one (1) baghouse, identified as FDC2, and exhausting to one (1) stack, identified as S-FDC2.
(5) One (1) south clinker tower, identified as EU27, constructed in 1974, with a nominal rate of 120 tons per hour, with PM emissions controlled by one (1) baghouse, identified as FDC3, and exhausting to one (1) stack, identified as S-FDC3.
(6) One (1) hot spout clinker ladder, identified as EU28, constructed in 1993, with a nominal rate of 120 tons per hour, with PM emissions controlled by one (1) baghouse, identified as FDC4, and exhausting to one (1) stack, identified as S-FDC4.
(7) One (1) pan clinker conveyor, identified as EU29, constructed in 1979, with a nominal rate of 120 tons per hour, with PM emissions controlled by one (1) baghouse, identified as FDC5, and exhausting to one (1) stack, identified as S-FDC5.
(8) One (1) east clinker ladder, identified as EU30, constructed in 1993, with a nominal rate of 120 tons per hour, with PM emissions controlled by one (1) baghouse, identified as FDC6, and exhausting to one (1) stack, identified as S-FDC6.
(9) One (1) roll crusher, identified as EU31, constructed in 1987, with a nominal rate of 240 tons per hour, with PM emissions controlled by one (1) baghouse, identified as FDC7, and exhausting to one (1) stack, identified as S-FDC7.

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

Note: The scrap bin clinker ladder (EU26c), the hot spout clinker ladder (EU28), and the east clinker ladder (EU30) are not emission units; they are flaps which are used to reduce the drop heights from the North clinker tower, the south clinker tower, and the north storage drag, respectively, which reduce particulate emissions.

The finish mill facilities/emissions units, as follows:

(1) One (1) finish mill #1 with associated feed bin, identified as EU32, constructed in 1959, with a nominal rate of 37 tons per hour, with PM emissions controlled by one (1) baghouse, identified as FDC8, and exhausting to one (1) stack, identified as S-FDC8.
(2) One (1) finish mill #2 with associated feed bin, identified as EU33, constructed in 1959, with a nominal rate of 37 tons per hour, with PM emissions controlled by one (1) baghouse, identified as FDC9, and exhausting to one (1) stack, identified as S-FDC9.
(3) One (1) finish mill #3 with associated feed bin, identified as EU34, constructed in 1959, with a nominal rate of 37 tons per hour, with PM emissions controlled by one (1) baghouse, identified as FDC10, and exhausting to one (1) stack, identified as S-FDC10.
(4) One (1) finish mill #4 with associated feed bin, identified as EU35, constructed in 1974, with a nominal rate of 50 tons per hour, with PM emissions controlled by one (1) baghouse, identified as FDC11, and exhausting to one (1) stack, identified as S-FDC11.
(5) One (1) finish mill #4 separator, identified as EU36, constructed in 1989, with a nominal rate of 50 tons per hour, with PM emissions controlled by one (1) baghouse, identified as FDC12, and exhausting to one (1) stack, identified as S-FDC12.
(6) One (1) lime bin, identified as EU38, constructed in 1993, with a nominal rate of 6 tons per hour, with PM emissions controlled by one (1) baghouse, identified as FDC14, and exhausting to one (1) stack, identified as S-FDC14.

The finish material storage facilities/emissions units, as follows:

(1) One (1) surge bin, identified as EU37, with a nominal rate of 35 tons per hour, with PM emissions controlled by one (1) baghouse, identified as FDC13, and exhausting to one (1) stack, identified as S-FDC13.
(2) A north and south silo operation consisting of thirty (30) storage silos, identified as EU39A and EU39B, constructed in 1959, with a nominal rate of 60 tons per hour, with PM emissions controlled by two (2) baghouses, identified as SDC1 and SDC2, and exhausting to two (2) stacks, identified as S-SDC1 and S-SDC2, respectively.
(3) A silo transfer system, identified as EU40A and EU40B, constructed in 1959, with a nominal rate of 300 tons per hour, with PM emissions controlled by two (2) baghouses, identified as SDC3 and SDC4, and exhausting to two (2) stacks, identified as S-SDC3 and S-SDC4, respectively

The bulk loading and packaging facilities/emissions units, as follows:

(1) One (1) east truck loadout bin, identified as EU41, constructed in 1959, with a nominal rate of 450 tons per hour, with PM emissions controlled by one (1) baghouse, identified as SDC5, and exhausting to one (1) stack, identified as S-SDC5.
(2) One (1) east truck vaculoader, identified as EU42, constructed in 1959, with a nominal rate of 450 tons per hour, with PM emissions controlled by one (1) baghouse, identified as SDC6, and exhausting to one (1) stack, identified as S-SDC6.
(3) One (1) west truck loadout bin, identified as EU43, constructed in 1959, with a nominal rate of 450 tons per hour, with PM emissions controlled by one (1) baghouse, identified as SDC7, and exhausting to one (1) stack, identified as S-SDC7.
(4) One (1) west truck vaculoader, identified as EU44, constructed in 1959, with a nominal rate of 450 tons per hour, with PM emissions controlled by one (1) baghouse, identified as SDC8, and exhausting to one (1) stack, identified as S-SDC8.

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

(5) One (1) truck loadout station, identified as F06, constructed in 1959, with a nominal rate of 30 tons per hour, and exhausting directly to the atmosphere.
(6) One (1) railroad loadout bin, identified as EU45, constructed in 1959, with a nominal rate of 240 tons per hour, with PM emissions controlled by one (1) baghouse, identified as SDC9, and exhausting to one (1) stack, identified as S-SDC9.
(7) One (1) articuloader, identified as EU46, constructed in 1959, with a nominal rate of 240 tons per hour, with PM emissions controlled by one (1) baghouse, identified as SDC10, and exhausting to one (1) stack, identified as S-SDC10.
(8) One (1) packing machine, identified as EU47, constructed in 1984, with a nominal rate of 40 tons per hour, with PM emissions controlled by two (2) baghouses, identified as SDC11 and SDC12, and exhausting to two (2) stacks, identified as S-SDC11 and S-SDC12, respectively.

(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 Particulate [326 IAC 6-3-2]

(a) Pursuant to 326 IAC 6-3-2 (Particulate Emissions Limitation for Manufacturing Processes), the allowable PM emission rate from raw mill blending and kiln supply storage facilities/emissions units (EU13 and EU14) shall not exceed 61.0 pounds per hour (total for both EU13 and EU14) when operating at a process weight rate of 250 tons per hour.

(b) Pursuant to 326 IAC 6-3-2 (Particulate Emissions Limitation for Manufacturing Processes), the allowable PM emission rate from the kiln feed bin #1 (EU18) shall not exceed 47.2 pounds per hour when operating at a process weight rate of 66 tons per hour.

(c) Pursuant to 326 IAC 6-3-2 (Particulate Emissions Limitation for Manufacturing Processes), the allowable PM emission rate from the kiln feed bin #2 (EU20) shall not exceed 47.2 pounds per hour when operating at a process weight rate of 66 tons per hour.

(d) Pursuant to 326 IAC 6-3-2 (Particulate Emissions Limitation for Manufacturing Processes), the allowable PM emission rate from the kiln feed bin #3 (EU22) shall not exceed 48.2 pounds per hour when operating at a process weight rate of 73 tons per hour.

(e) Pursuant to 326 IAC 6-3-2 (Particulate Emissions Limitation for Manufacturing Processes), the allowable PM emission rate from the south storage drag (EU25) shall not exceed 53.1 pounds per hour when operating at a process weight rate of 120 tons per hour.

(f) Pursuant to 326 IAC 6-3-2 (Particulate Emissions Limitation for Manufacturing Processes), the allowable PM emission rate from the north clinker tower (EU26a) shall not exceed 53.1 pounds per hour when operating at a process weight rate of 120 tons per hour.

(g) Pursuant to 326 IAC 6-3-2 (Particulate Emissions Limitation for Manufacturing Processes), the allowable PM emission rate from the north storage drag (EU26b) shall not exceed 53.1 pounds per hour when operating at a process weight rate of 120 tons per hour.

(h) Pursuant to 326 IAC 6-3-2 (Particulate Emissions Limitation for Manufacturing Processes), the allowable PM emission rate from the south clinker tower (EU27) shall not exceed 53.1 pounds per hour when operating at a process weight rate of 120 tons per hour.

(i) Pursuant to 326 IAC 6-3-2 (Particulate Emissions Limitation for Manufacturing Processes), the allowable PM emission rate from the pan clinker conveyor (EU29) shall not exceed 53.1 pounds per hour when operating at a process weight rate of 120 tons per hour.

(j) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the roll crusher (EU31) shall not exceed 60.5 pounds per hour when operating at a process weight rate of 240 tons per hour.

(k) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from finish mill #1 and associated feed bin (EU32) shall not exceed 42 pounds per hour when operating at a process weight rate of 37 tons per hour.

(l) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from finish mill #2 and associated feed bin (EU33) shall not exceed 42 pounds per hour when operating at a process weight rate of 37 tons per hour.

(m) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from finish mill #3 and associated feed bin (EU34) shall not exceed 42 pounds per hour when operating at a process weight rate of 37 tons per hour.

(n) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from finish mill #4, associated feed bin and separator (EU35 and EU36) shall not exceed 45 pounds per hour (total for all facilities/emission units) when operating at a process weight rate of 50 tons per hour.

(o) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the lime bin (EU38) shall not exceed 13.6 pounds per hour when operating at a process weight rate of 6 tons per hour.

(p) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the surge bin (EU37) shall not exceed 41.3 pounds per hour when operating at a process weight rate of 35 tons per hour.

(q) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the north silo operation (EU39A) shall not exceed 46.3 pounds per hour when operating at a process weight rate of 60 tons per hour.

(r) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the south silo operation (EU39B) shall not exceed 46.3 pounds per hour when operating at a process weight rate of 60 tons per hour.

(s) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the silo transfer system (EU40A) shall not exceed 63 pounds per hour when operating at a process weight rate of 300 tons per hour.

(t) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the silo transfer system (EU40B) shall not exceed 63 pounds per hour when operating at a process weight rate of 300 tons per hour.

(u) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the east truck loadout bin and vaculoader (EU41 and EU42) shall not exceed 67.7 pounds per hour (total for all facilities/emission units) when operating at a process weight rate of 450 tons per hour.

(v) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the west truck loadout bin and vaculoader (EU43 and EU44) shall not exceed 67.7 pounds per hour (total for all facilities/ emission units) when operating at a process weight rate of 450 tons per hour.

(w) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the railroad loadout bin and articuloader (EU45 and EU46) shall not exceed 60.5 pounds per hour (total for all facilities/ emission units) when operating at a process weight rate of 240 tons per hour.

(x) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the packing machine (EU47) shall not exceed 43 pounds per hour when operating at a process weight rate of 40 tons per hour.

The pounds per hour limitation for the lime bin (EU38) was calculated with the following equation:

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

$E = 4.10\ P^{0.67}$ where E = rate of emission in pounds per hour and
P = process weight rate in tons per hour

The pounds per hour limitations for all the other processes were calculated with the following equation:

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

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

When the process weight rate exceeds 200 tons per hour, the maximum allowable emissions 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 one thousand (1,000) pounds of gases.

D.3.2 Supersession of a Condition in a Previously Issued Construction Permit [326 IAC 12] [40 CFR 60, Subpart F]

CP 093-2770-00002, issued March 3, 1993 stated that pursuant to the New Source Performance Standards, 326 IAC 12 (40 CFR 60.60 through 60.66) Subpart F, (Standards of Performance for Portland Cement Plants), visible emissions from the hydrated lime feed system (EU38) and the clinker ladders (EU26c, EU28, and EU30) shall not exceed 10% opacity (40 CFR 60.62(c)). However, upon further review, it has been determined that the three clinker ladders (EU28, EU30, and EU26c) which were permitted in CP 093-2770-00002, were updates to existing drop points,

which reduced emissions. Therefore, they were not "modifications" as defined in 40 CFR 60.14. Consequently, 40 CFR 60, Subpart F does not apply to the clinker ladders (EU28, EU30, and EU26c).

D.3.3 General Provisions Relating to NESHAP [326 IAC 20-1][40 CFR Part 63, Subpart A]

On and after June 14, 2002, 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 storage facilities/ emissions units (EU13, EU14, EU18, EU20 and EU22), the conveyor transfer points associated with the clinker handling facilities/emission units (EU25, EU26a, EU26b, EU27, and EU29) the roll crusher (EU31), the finish mill facilities/emission units (EU32 through EU36 and EU38), and the finish material storage and bulk loading and packaging facilities/emission units (EU37, EU39 through EU47, and F06) described in this section except when otherwise specified in 40 CFR Part 63, Subpart LLL.

D.3.4 NESHAP Emissions Limitation [40 CFR 63, Subpart LLL]

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 each of the raw mill storage facilities/emissions units (EU13, EU14, EU18, EU20 and EU22), the conveyor transfer points associated with the clinker handling facilities/emission units (EU25, EU26a, EU26b, EU27, and EU29), the roll crusher (EU31), the finish mill facilities/emission units (EU32 through EU36, and EU38), and the finish material storage and bulk loading and packaging facilities/emission units (EU37, EU39 through EU47, and F06) shall not exceed ten percent (10%) opacity.

D.3.5 Determinations of Nonapplicability [40 CFR 60, Subparts A and F] [40 CFR 63, Subparts A and LLL]

(a) The raw mill storage facilities/emissions units (EU13, EU14, EU18, and EU20), the finish mill facilities/emission units (EU32, EU33, and EU34), the clinker handling facilities (EU25, EU26a, EU26b, EU26c, EU28, EU29, and EU30), and the finish material storage and bulk loading and packaging facilities/emission units (EU37, EU39A, EU39B, EU40A, EU40B, EU41 through EU46 and F06) 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 not affected facilities under the rule or they were not constructed or modified after the applicability date of August 17, 1971.

(b) The clinker handling facilities/emission units (EU26c, EU28, and EU30) are not subject to the requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP), 40 CFR 63, Subparts A and LLL (NESHAP from the Portland Cement Manufacturing Industry) because they are not affected facilities under the regulation.

D.3.6 Prevention of Significant Deterioration (PSD) [326 IAC 2-2]

(a) In order to render the requirements of PSD not applicable, to the Permittee's: 1979 pan clinker conveyor modification; 1984 packing machine modification; 1987 roll crusher modification; 1989 finish mill #4 separator modification; and 1993 lime bin modification, respectively, the following conditions shall apply:

(1) The PM emissions from the baghouse FDC5 controlling the pan clinker conveyor (EU29) shall not exceed 5.68 pounds per hour.

(2) The PM emissions from the baghouses SDC11 and SDC 12 controlling the packing machine (EU47) shall not exceed 5.68 pounds per hour.

(3) The PM emissions from the baghouse FDC7 controlling the roll crusher (EU31) shall not exceed 5.68 pounds per hour.

(4) The PM emissions from the baghouse FDC12 controlling the finish mill #4 separator (EU36) shall not exceed 5.68 pounds per hour.

(5) The PM_{10} emissions from the baghouse FDC12 controlling the finish mill #4 separator (EU36) shall not exceed 3.40 pounds per hour.

(6) The PM emissions from the baghouse FDC14 controlling the lime bin (EU38) shall not exceed 5.68 pounds per hour.

(7) The PM_{10} emissions from the baghouse FDC14 controlling the lime bin (EU38) shall not exceed 3.40 pounds per hour.

These limits will ensure that the PM and PM_{10} emissions increases from the modifications above do not exceed 25 and 15 tons per year, respectively. Therefore, the requirements of 326 IAC 2-2, PSD, are not applicable.

(b) Pursuant to Significant Permit Modification 093-16851-00002 issued on July 11, 2003, and Significant Permit Modification 093-18649-00002 issued in 2004, in order to render the requirements of 326 IAC 2-2 (PSD) not applicable, the following conditions shall apply upon startup of either preheater Kilns #1 or #2:

(1) PM and PM_{10} emissions from Blending Bins (EU13) shall each not exceed 1.06 pounds per hour while exhausting from baghouse RMDC5 and shall not exceed 0.53 pounds per hour while exhausting from baghouse RMDC6.

(2) PM and PM_{10} emissions from Kiln Supply Silos (EU14) shall each not exceed 1.06 pounds per hour while exhausting from baghouse RMDC7 and shall not exceed 0.53 pounds per hour while exhausting from baghouse RMDC8.

(3) PM and PM_{10} emissions from baghouse KDC1 controlling Kiln #1 Feed Bin (EU18) shall each not exceed 0.49 pounds per hour.

(4) PM and PM_{10} emissions from baghouse KDC3 controlling Kiln #2 Feed Bin (EU20) shall each not exceed 0.49 pounds per hour.

(5) PM and PM_{10} emissions from baghouse FDC1 controlling South Storage Drag (EU25) shall each not exceed 0.47 pounds per hour.

(6) The Finish Mill Surge Bin (EU37) shall be limited to 1,500 hours of operation per 12 consecutive month period with compliance determined at the end of each month.

(7) PM and PM_{10} emissions from baghouse FDC2 controlling North Clinker Tower (EU26A) shall each not exceed 1.76 pounds per hour.

(8) PM and PM_{10} emissions from baghouse FDC3 controlling South Clinker Tower (EU27) shall each not exceed 1.68 pounds per hour.

(9) PM and PM_{10} emissions from baghouse FDC4 controlling Hot Spout Clinker Ladder (EU28) shall each not exceed 1.76 pounds per hour.

(10) PM and PM_{10} emissions from baghouse FDC5 controlling Pan Conveyor (EU29) shall each not exceed 0.85 pounds per hour.

(11) PM and PM_{10} emissions from baghouse FDC6 controlling East Clinker Ladder (EU30) shall each not exceed 1.21 pounds per hour.

(12) PM and PM_{10} emissions from baghouse FDC7 controlling Roll Crusher (EU31) shall each not exceed 1.84 pounds per hour.

(13) PM and PM_{10} emissions from baghouse FDC8, controlling Finish Mill #1 (EU32), shall each not exceed 1.42 pounds per hour.

(14) PM and PM_{10} emissions from baghouse FDC9 controlling Finish Mill #2 (EU33) shall each not exceed 1.42 pounds per hour.

(15) PM and PM_{10} emissions from baghouse FDC10 controlling Finish Mill #3 (EU34) shall each not exceed 1.42 pounds per hour.

(16) PM and PM_{10} emissions from baghouse FDC11 controlling Finish Mill #4 (EU35) shall each not exceed 0.64 pounds per hour.

(17) PM and PM_{10} emissions from baghouse FDC12 controlling Finish Mill #4 Separator (EU36) shall each not exceed 3.27 pounds per hour.

(18) The Lime Bin (EU38) shall be limited 2,500 hours of operation per 12 consecutive month period with compliance determined at the end of each month.

(19) PM and PM_{10} emissions from baghouse FDC14 controlling Lime Bin (EU38) shall each not exceed 0.22 pounds per hour.

(20) PM and PM_{10} emissions from baghouse FDC13 controlling Finish Mill Surge Bin (EU37) shall each not exceed 0.49 pounds per hour.

(21) PM and PM_{10} emissions from baghouse SDC1 controlling North Silo Operation (EU39A) shall each not exceed 1.77 pounds per hour.

(22) PM and PM_{10} emissions from baghouse SDC2 controlling South Silo Operation (EU39B) shall each not exceed 1.77 pounds per hour.

(23) PM and PM_{10} emissions from baghouse SDC3 controlling Silo Transfer - East (EU40A) shall each not exceed 0.57 pounds per hour.

(24) PM and PM_{10} emissions from baghouse SDC4 controlling Silo Transfer - West (EU40B) shall each not exceed 0.57 pounds per hour.

(25) PM and PM_{10} emissions from baghouse SDC5 controlling East Truck Loadout Bin (EU41) shall each not exceed 0.43 pounds per hour.

(26) PM and PM_{10} emissions from baghouse SDC7 controlling West Truck Loadout Bin (EU43) shall each not exceed 0.43 pounds per hour.

(27) PM and PM_{10} emissions from baghouse SDC6 controlling East Vaculoader (EU42) shall each not exceed 0.22 pounds per hour.

(28) PM and PM_{10} emissions from baghouse SDC8 controlling West Vaculoader (EU44) shall each not exceed 0.22 pounds per hour.

(29) The Railroad Loadout Bin (EU45) and the Articuloader (EU46) shall be limited to 2,000 hours of operation per 12 consecutive month period with compliance determined at the end of each month.

(30) PM and PM_{10} emissions from baghouse SDC9 controlling Railroad Loadout Bin (EU45) shall each not exceed 0.71 pounds per hour.

(31) PM and PM_{10} emissions from baghouse SDC10 controlling Articuloader (EU46) shall each not exceed 0.21 pounds per hour.

(32) The Packing Machine (EU47) shall be limited to 5,500 hours of operation per 12 consecutive month period with compliance determined at the end of each month.

(33) PM and PM_{10} emissions from baghouse SDC11 and baghouse SDC12 controlling Packing Machine (EU14) shall each not exceed 0.92 pounds per hour.

These limits will ensure that the PM and PM_{10} emissions increase from the modification permitted in Significant Permit Modification 093-16851-00002 issued on July 11, 2003, and Significant Permit Modification 093- 18649-00002 issued in 2004 will not exceed 25 and 15 tons per year, respectively. Therefore, the requirements of 326 IAC 2-2 (PSD) are not applicable to these modifications.

D.3.7 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for all control devices listed in this section. If the Operations and Maintenance Plan required by Condition D.3.10 is developed in accordance with Section B - Preventive Maintenance Plan, then once the Operations and Maintenance Plan has been developed, it shall satisfy this condition.

Compliance Determination Requirements

D.3.8 Testing Requirements [326 IAC 2-7-6(1),(6)] [40 CFR 63, Subpart LLL] [326 IAC 2-1.1-11]

(a) Within 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 limit established in Condition D.3.4 by conducting a test in accordance with 40 CFR 63.1349 and Method 9 of 40 CFR Part 60, Appendix A. Testing shall be conducted in accordance with Section C - Performance Testing. These tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration.

(b) Within 60 days after achieving maximum capacity but no later than 180 days after startup of preheater Kilns #1 and #2, in order to demonstrate compliance with Condition D.3.1(k), (l), (m), (n), and D.3.6, the Permittee shall perform PM and PM_{10} testing on the Finish mill #1 (EU32), Finish mill #2 (EU33), Finish mill #3 (EU34), Finish Mill #4 (EU35) and the finish mill #4 separator (EU36). These tests shall be conducted utilizing methods as approved by the Commissioner. These tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C- Performance Testing. PM_{10} includes filterable and condensible PM_{10}. All associated facilities exhausting to a single stack must all be operating when determining compliance with the limit.

D.3.9 Particulate Control

Pursuant to CP093-2770 issued March 3, 1993, for the three clinker ladders (EU26c, EU28 and EU30 and the lime bin (EU38), and in order for all units to comply with Conditions D.3.1, D.3.4 and D.3.6, except as otherwise provided by statute, rule or this permit, each baghouse listed in

this section for particulate control shall be in operation at all times when its associated facility/emissions unit is in operation.

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

D.3.10 NESHAP Monitoring Requirements [40 CFR 63, Subpart LLL]

(a) Pursuant to 40 CFR 63.1350 (Monitoring Requirements), the Permittee shall prepare a written operations and maintenance plan for the raw mill storage facilities/emissions units (EU13, EU14, EU18, EU20 and EU22), the conveyor transfer points associated with the clinker handling facilities/emission units (EU25, EU26a, EU26b, EU27, and EU29), the clinker handling facility/emission unit described as the roll crusher (EU31), the finish mill facilities/emission units (EU32 through EU36 and EU38), and the finish material storage and bulk loading and packaging facilities/emission units (EU37, EU39 through EU47, and F06) 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.3.4; and

(2) Procedures to be used to periodically monitor the affected facilities, 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 on each stack exhaust (S-RMDC5 through S-RMDC8, S-KDC1, S-KDC3, S-KDC5, S-FDC1 through S-FDC3, S-FDC5, S-FDC7, S-FDC13, and S-SDC1 through S-SDC12) associated with the raw mill storage facilities/ emissions units (EU13, EU14, EU18, EU20 and EU22), the conveyor transfer points associated with the clinker handling facilities/emission units (EU25, EU26a, EU26b, EU27, and EU29), the clinker handling facility/ emission unit described as the roll crusher (EU31), the finish material storage facilities/emission units (EU37, EU39A, EU39B, EU40A, and EU40B), the bulk loading and packaging facilities/emission units (EU41 through EU47), the lime bin (EU38), and the truck loadout station (F06) in accordance with 40 CFR 60, Appendix A, Method 22. The test must be conducted while the 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. The contents of the operations and maintenance plan are not included in this permit and may be modified by the Permittee without modification or amendment of this permit.

(b) Pursuant to 40 CFR 63.1350 (Monitoring Requirements), on and after June 14, 2002, the Permittee shall monitor opacity from the finish mills (EU32 through EU36) 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 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).

Within twenty-four (24) hours of the end of the Method 22 test in which visible emissions were observed, conduct a follow-up Method 22 test of each stack from which visible emissions were observed during the previous Method 22 test. If visible emissions are observed during the follow-up Method 22 test from any stack from which visible emissions were observed during the previous Method 22 test, conduct a visual opacity test of each stack from which visible emissions were observed during the follow-up Method 22 test in accordance with 40 CFR Part 60, Appendix A, Method 9. The duration of the Method 9 test shall be thirty minutes.

D.3.11 Visible Emissions Notations

Visible emission notations of all of the baghouse stack exhausts controlling the raw mill storage facilities/emissions units (EU13, EU14, EU18, EU20 and EU22), the conveyor transfer points associated with the clinker handling facilities/emission units (EU25, EU26a, EU26b, EU27, and EU29) the roll crusher (EU31), the finish mill facilities/emission units (EU32 through EU36 and EU38), and the finish material storage and bulk loading and packaging facilities/emission units (EU37, EU39 through EU47) shall be performed once per day during normal daylight operations. Visible emission notations of all other baghouse stack exhausts shall be performed once per shift during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.

(a) 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.

(b) 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.

(c) 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.

(d) On days that the NESHAP monitoring required in Condition D.3.10 is performed, the Permittee may use those results to satisfy the requirements of this condition for those facilities monitored.

(e) The Compliance Response Plan for these units shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

D.3.12 Parametric Monitoring

The Permittee shall record the total static pressure drop across each baghouse associated with the raw mill storage facilities/emissions units (EU13, EU14, EU18, EU20 and EU22), the conveyor transfer points associated with the clinker handling facilities/emission units (EU25, EU26a, EU26b, EU27, and EU29) the roll crusher (EU31), the finish mill facilities/emission units (EU32 through EU36 and EU38), and the finish material storage and bulk loading and packaging facilities/emission units (EU37, EU39 through EU47) at least once per day when the associated facility/emission units are in operation and venting to the atmosphere. The Permittee shall record the total static pressure drop across all other baghouses at least once per shift when the associated facility/emission units are in operation and venting to the atmosphere. When for any one reading, the pressure drop across a baghouse is outside the normal range of 1.0 and 8.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge and Other 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.3.13 Baghouse Inspections

An inspection shall be performed each calendar quarter of all bags controlling the process listed in this section when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting to the indoors. Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.

D.3.14 Broken or Failed Bag Detection

In the event that bag failure has been observed.

(a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if there are no visible emissions from the emission unit, control device, or stack, or if the event qualifies as an emergency and the Permittee satisfies the emergency provisions of this permit (Section B- Emergency Provisions). Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

(b) For single compartment baghouses, if failure is indicated by a significant drop in the baghouse's pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if bag failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, dust traces, or triboflows, then failed units and the associated process will be shut down immediately until the failed units have 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).

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

D.3.15 Record Keeping Requirements

(a) To document compliance with Condition D.3.11, the Permittee shall maintain records of visible emission notations of the baghouse stack exhausts controlling the raw mill storage facilities/emissions units (EU13, EU14, EU18, EU20 and EU22), the conveyor transfer points associated with the clinker handling facilities/emission units (EU25, EU26a, EU26b, EU27, and EU29) the roll crusher (EU31), the finish mill facilities/emission units (EU32 through EU36 and EU38), and the finish material storage and bulk loading and packaging facilities/emission units (EU37, EU39 through EU47) once per day and all other baghouse stack exhausts once per shift.

(b) To document compliance with Condition D.3.12, the Permittee shall maintain records of the inlet and outlet differential static pressure of each baghouse associated with the raw mill storage facilities/emissions units (EU13, EU14, EU18, EU20 and EU22), the conveyor transfer points associated with the clinker handling facilities/emission units (EU25, EU26a, EU26b, EU27, and EU29) the roll crusher (EU31), the finish mill facilities/ emission units (EU32 through EU36 and EU38), and the finish material storage and bulk loading and packaging facilities/emission units (EU37, EU39 through EU47) once per day and all other baghouses once per shift.

(c) To document compliance with Condition D.3.13, the Permittee shall maintain records of the results of the inspections required under Condition D.3.13.

(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:

(A) All documentation supporting initial notifications and notifications of compliance status under 40 CFR 63.9.

(B) All records of applicability determination, including supporting analyses.

(e) To document compliance with Condition D.3.6(b)(5), (15), (22) and (25), the Permittee shall maintain records of the Finish Mill Surge Bin (EU37), the Lime Bin (EU38), the Railroad Loadout Bin (EU45), the Articuloader (EU46) and the Packing Machine (EU47) operating hours.

(f) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.3.16 Reporting Requirements

(a) 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.3.10 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, 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) 233-5674 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.

(b) In addition to being submitted to the address listed in Section C - General Reporting Requirements, all reports and the operations and maintenance plan 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), the reports submitted by the Permittee shall include the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(c) A quarterly summary of the information to document compliance with Condition D.3.6 (b) shall be submitted to the address listed in Section C - General Reporting Requirements, using the reporting forms located at the end of this permit, or the equivalent, within thirty

(30) days after the end of the quarter being reported. The reports submitted by the Permittee do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

SECTION D.4 FACILITY/EMISSION UNIT OPERATION CONDITIONS

Facility/Emissions Unit Description [326 IAC 2-7-5(15)]

(1) One (1) kiln #1, identified as EU15, constructed in 1959 as a long dry kiln and modified to a one-stage preheater kiln in July 2003, with a heat input rate of 118 million Btu per hour, with a nominal production rate of 38 tons per hour, with PM emissions controlled by one (1) electrostatic precipitator (ESP), identified as KP1, and dioxins/furans controlled and SO_2 partially controlled by a Water Spray Tower, and exhausting to one (1) stack, identified as S-KP1. Kiln #1 is also permitted to use a blended fuel of coal and pressed paper making waste where the blend has a maximum of 20% pressed paper making waste by heat input.

Kiln #1 is permitted to use a blended fuel of coal and clean and/or treated wood where the blend has a maximum of up to 35% clean and/or treated wood by heat input.

(2) One (1) kiln #2, identified as EU16, constructed in 1959 as a long dry kiln and modified to a one-stage preheater kiln in July 2003, with a heat input rate of 118 million Btu per hour, with a nominal production rate of 38 tons per hour, with PM emissions controlled by one (1) electrostatic precipitator (ESP), identified as KP2, and dioxins/furans controlled and SO_2 partially controlled by a Water Spray Tower, and exhausting to one (1) stack, identified as S-KP1. Kiln #2 is also permitted to use a blended fuel of coal and pressed paper making waste where the blend has a maximum of 20% pressed paper making waste by heat input.

Kiln #2 is permitted to use a blended fuel of coal and clean and/or treated wood where the blend has a maximum of up to 35% clean and/or treated wood by heat input.

(3) One (1) kiln #3, identified as EU17, constructed in 1974 as a one-stage preheater kiln, with a heat input rate of 118 million Btu per hour, with a nominal production rate of 43 tons per hour, with PM emissions controlled by one (1) electrostatic precipitator (ESP), identified as KP3, and exhausting to one (1) stack, identified as S-KP2. Kiln #3 is also permitted to use a blended fuel of coal and pressed paper making waste where the blend has a maximum of 20% pressed paper making waste by heat input.

(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.4.1 Prevention of Significant Deterioration (PSD) [326 IAC 2-2]

Pursuant to Significant Permit Modification 093-16851-00002 issued in 2003, in order to render the requirement of 326 IAC 2-2 (PSD) not applicable to the preheater modification, the following conditions shall apply upon startup of either preheater Kilns #1 or #2:

(a) The Clinker production from Kiln #1 (EU15) and Kiln #2 (EU16) shall be limited to 321,875 tons each per 12 consecutive month period with compliance determined at the end of each month.

(b) PM emissions from each Kiln #1 (EU15) and Kiln #2 (EU16) shall not exceed 0.28 lb/ton clinker.

(c) PM_{10} emissions from each Kiln #1 (EU15) and Kiln #2 (EU16) shall not exceed 0.59 lb/ton clinker.

(d) NOx emissions from each Kiln #1 (EU15) and Kiln #2 (EU16) shall not exceed 11.14 lb/ton clinker.

(e) CO emissions from each Kiln #1 (EU15) and Kiln #2 (EU16) shall not exceed 1.67 lb/ton clinker.

(f) SO_2 emissions from each Kiln #1 (EU15) and Kiln #2 (EU16) shall not exceed 7.51 lb/ton clinker.

(g) VOC emissions from each Kiln #1 (EU15) and Kiln #2 (EU16) shall not exceed 0.30 lb/ton clinker.

(h) Lead emissions from each Kiln #1 (EU15) and Kiln #2 (EU16) shall not exceed 1.69E-03 lb/ton clinker.

(i) Sulfuric Acid mist emissions from each Kiln #1 (EU15) and Kiln #2(EU16) shall not exceed 3.9E-02 lb/ton clinker.

(j) H2S emissions from each Kiln #1 (EU15) and Kiln #2(EU16) shall not exceed 0.037 lb/ton clinker.

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

D.4.1.1 Kiln #1 and Kiln #2 Partial Fuel Switch [326 IAC 2-2-2(d)(3)]

Pursuant to 326 IAC 2-2-2(d)(3), Kiln #1 and Kiln #2 are permitted to burn a blended fuel of coal and clean and/or treated wood where the blend has a maximum of up to 35% clean and/or treated wood by heat input.

D.4.2 Sulfur Dioxide (SO2) [326 IAC 7-1.1-1] [326 IAC 7-2-1]

Pursuant to 326 IAC 7-1.1 (SO_2 Emissions Limitations) the SO_2 emissions from the combustion of coal in each of the kilns shall not exceed six (6.0) pounds per MMBtu heat input each. Pursuant to 326 IAC 7-2-1, compliance shall be demonstrated on a monthly average. 326 IAC 7-1.1 and 326 IAC 7-2-1 are not federally enforceable.

D.4.3 General Provisions Relating to NESHAP [326 IAC 20-1][40 CFR Part 63, Subpart A]

On and after June 14, 2002, the provisions of 40 CFR Part 63, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 20-1, apply to kiln #1 (EU15), kiln #2 (EU16), and kiln #3 (EU17) except when otherwise specified in 40 CFR Part 63, Subpart LLL.

D.4.4 NESHAP Emissions Limitation [40 CFR 63, Subpart LLL]

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 (EU15), kiln #2 (EU16), and kiln #3 (EU17) shall be limited as follows:

(a) Particulate matter (PM) emissions shall be limited to 0.30 pound per ton of feed (dry basis) to the kiln.

(b) Visible emissions shall be limited to twenty percent (20%) opacity.

(c) Dioxin/Furan emissions shall be limited to 8.7×10^{-11} grains per dry standard cubic foot (TEQ) corrected to seven percent oxygen; or 1.7×10^{-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.

(d) The kiln shall be operated such that the three hour rolling average temperature of the gas at the inlet to the kiln's particulate matter control device does not exceed the average of the run average temperatures determined during the performance tests required in Condition D.4.7.

D.4.5 Compliance Assurance Monitoring (CAM) Plan [40 CFR 64]

IDEM has determined that a Compliance Assurance Monitoring (CAM) Plan, in accordance with the requirements of 40 CFR 64, is required for the one-stage preheater kiln #1 (EU15), and the one-stage preheater kiln #2 (EU16). Pursuant to 40 CFR 64.2, CAM is required because the potential to emit SO_2 is greater than one hundred (100) tons per year before control and the source is subject to the emission limitations contained in conditions D.4.1 and D.4.2. A CAM plan was received from the source on December 19, 2002. IDEM has determined that compliance with the monitoring requirements of 40 CFR 63.8 and 40 CFR 63, Subpart LLL (National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry), satisfy the monitoring requirements of 40 CFR 64.

D.4.6 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for each of the kilns facilities/emissions units and the control devices KP1, KP2, and KP3. If the Operations and Maintenance Plan required by Condition D.4.12 is developed in accordance with Section B - Preventive Maintenance Plan, then once the Operations and Maintenance Plan has been developed, it shall satisfy this condition.

Compliance Determination Requirements

D.4.7 NESHAP Testing Requirements [40 CFR 63, Subpart LLL]

(a) Within 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.4.4 by conducting performance tests in accordance with 40 CFR 63.1349 and Section C - Performance Testing. The tests for PM shall be repeated at least once every five 5 years and the tests for dioxin/furans shall be repeated at least once every 2.5 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 that may adversely affect compliance with the applicable particulate matter or dioxins/furans limits. These tests shall be conducted in accordance with Section C - Performance Testing. Pursuant to 40 CFR 63.7(e), the tests shall be conducted under representative operating conditions.

(b) Pursuant to 40 CFR 63.1349, the Permittee is required to repeat the performance tests for particulate matter and dioxins/furans within 90 days of startup of preheater Kilns #1 and #2.

D.4.8 Testing requirement [326 IAC 2-1.1-11]

To verify compliance with condition D.4.1, the permittee shall, within 60 days after achieving maximum capacity but no later than 180 days after startup of preheater Kilns #1 and #2, perform PM, PM_{10}, NOx, CO, SO_2, VOC, Sulfuric Acid mist, H2S and Lead testing on Kiln #1 (EU15) and Kiln #2 (EU16). The PM, PM_{10}, NO_x, CO, SO_2, VOC, Sulfuric Acid mist, H2S, and Lead testing for Kilns #1 and #2 shall be repeated every 2.5 years from the Permittee's initial compliance demonstration for each of these pollutants following start-up of the preheater Kilns #1 and #2.

D.4.9 Particulate Control

Except as otherwise provided by statute, rule or this permit, the ESPs (KP1, KP2, and KP3) for PM control shall be in operation at all times when the associated kiln is in operation, in order to demonstrate compliance with Conditions D.4.1 and D.4.4.

D.4.10 Sulfur Dioxide Emissions from Coal Combustion and Coal Sulfur Content [326 IAC 2-7-5(A)] [326 IAC 2-7-6] [326 IAC 7-1.1] [326 IAC 7-2]

Pursuant to 326 IAC 7-1.1-2, the Permittee shall demonstrate that the sulfur dioxide emissions from coal combustion do not exceed six (6.0) pounds per MMBtu. Pursuant to 326 IAC 7-2, compliance shall be determined utilizing 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), (e);

(2) Sample 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.

(b) Compliance may 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, or 8. [326 IAC 7-2-1(d)]

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

(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. Upon such notification, the other requirements of 326 IAC 7 shall not apply. [326 IAC 7-2-1(g)]

326 IAC 3-5, 326 IAC 3-6 and 326 IAC 3-7 are not federally enforceable.

D.4.11 Continuous Emissions Monitoring [326 IAC 3-5] [326 IAC 2-7-6(1),(6)] [40 CFR 63, Subpart LLL]

Pursuant to 326 IAC 3-5 (Continuous Monitoring of Emissions), 326 IAC 2-1.1-11 and 40 CFR Part 63, a continuous monitoring system shall be installed, calibrated, maintained, and operated for measuring the opacity from each of the kilns (EU15, EU16 and EU17), pursuant to 326 IAC 3-5-2 and 40 CFR 63.8(c). The continuous opacity monitor shall meet the performance specifications of 326 IAC 3-5-2 and 40 CFR 63.8(c). 326 IAC 3-5 is not federally enforceable.

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

D.4.12 NESHAP Monitoring Requirements [40 CFR 63, Subpart LLL] [40 CFR 64.2]

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) for the Portland Cement Manufacturing Industry, the Permittee shall perform the following monitoring requirements:

(a) The Permittee shall have prepared a written operations and maintenance plan for kiln #1 (EU15), kiln #2 (EU16), and kiln #3 (EU17). The plan shall include the following information:

(1) Procedures for proper operation and maintenance of kiln #1 (EU15), kiln #2 (EU16), and kiln #3 (EU17) and associated air pollution control device(s) in order to meet the emissions limit in Condition D.4.4; and

(2) Procedures to be used during an inspection of the components of the combustion system of kiln #1 (EU15), kiln #2 (EU16), and kiln #3 (EU17) at least once per year.

Failure to comply with any provision of the operations and maintenance plan shall be a violation of the standard. The contents of the operations and maintenance plan are not included in this permit and may be modified by the Permittee without modification or amendment of this permit.

(b) The Permittee shall conduct an inspection of the components of the combustion system of kiln #1 (EU15), kiln #2 (EU16), and kiln #3 (EU17) at least once per year.

(c) The Permittee shall continuously monitor opacity of emissions at the outlet of the PM control device. The COM required by Condition D.4.11 shall be used to monitor opacity emissions in accordance with the NESHAP 40 CFR 63, Subpart LLL and shall be installed, maintained, calibrated and operated as required by 40 CFR 63, Subpart A.

(d) The Permittee shall install, calibrate, maintain, and continuously operate a continuous monitor to record the temperature of the exhaust gases from kiln #1 (EU15), kiln #2 (EU16), and kiln #3 (EU17) at the inlet to, or upstream of the kiln's PM control device.

(1) 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).

(2) 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 IDEM.

(3) The three-hour rolling average temperature shall be calculated as the average of 180 successive one-minute average temperatures.

(4) 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.

(5) The calibration of all thermocouples and other temperature sensors shall be verified at least once every three months.

Recording the temperature of the exhaust gases from kiln #1 (EU15) and kiln #2 (EU16) shall satisfy the requirement of the Compliance Assurance Monitoring (CAM) Plan for SO_2 emissions monitoring, in accordance with the requirements of 40 CFR 64.

D.4.13 Preventive Inspections

In order to document compliance with the applicable PM and dioxin/furan limits specified in Condition D.4.1 and Condition D.4.4 the following inspections shall be performed for each ESP:

(1) Electrostatic precipitator, transformer-rectifier set ("T-R set") component inspections shall be performed during each annual shutdown, but no less often than once every fourteen (14) months, and during any outage lasting more than five (5) days, unless such inspections have been performed within the last six (6) months. The inspections shall include the following:

(A) Internal inspections of shell for corrosion (including but not limited to doors, hatches, insulator housings, and roof area).

(B) Effectiveness of rapping (including but not limited to a visual check of dust buildup on discharge electrodes and plates).

(C) Gas distribution (including but not limited to a visual check of dust buildup on distribution plates and turning vanes).

(D) Dust accumulation (including but not limited to a visual check of dust buildup on shell and support members that could result in grounds or promote advanced corrosion).

(E) Major misalignment of plates and electrodes (including but not limited to a visual check of plate and electrode alignment).

(F) Rapper, electric hammer, and T-R set control cabinets (including but not limited to motors and lubrication).

(G) Rapper assembly (including but not limited to loose bolts, ground wires, water and air lines, and solenoids).

(H) Electric hammer and rapper boots (including but not limited to air in-leakage, wear and deterioration).

(I) T-R set controllers (including but not limited to voltage and current setpoints).

(2) Air and water infiltration, once per month. This inspection may consist of audible checks around hoppers/hatches, duct expansion joints, and areas of corrosion.

D.4.14 Parametric Monitoring

(a) The ability of the ESPs to control particulate emissions shall be monitored once per day when the units are in operation, by measuring and recording and comparing the total power of the ESP to the minimum total power of thirty-five kilowatts (35 kW).

(b) When for any reading, the total power is below the minimum total power of 35 kW, the Permittee shall take reasonable response steps in accordance with Section C – Compliance Response Plan – Preparation, Implementation, Records, and Reports. A total power reading below the minimum is not a deviation from this permit.

Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

D.4.15 Opacity Readings

The ability of the ESP to control particulate emissions shall be monitored by continuously measuring and recording the opacity of emissions from each of the kiln stack exhausts (S-KP1 and S-KP2).

(a) Appropriate response steps shall be taken in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports whenever the opacity exceeds 18 percent for three (3) consecutive six (6) minute averaging periods. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

(b) The opacity shall be determined by the certified continuous opacity monitor required in Condition D.4.11.

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

D.4.16 Record Keeping Requirements

(a) In order to document compliance with Conditions D.4.2 and D.4.10, the Permittee shall maintain records in accordance with (1) through (4) below. Records maintained for (1) through (4) shall be taken monthly and shall be complete and sufficient to establish compliance with the SO_2 emission limits established in D.4.2.

(1) Calendar dates covered in the compliance determination period;

(2) Actual monthly coal usage since last compliance determination period;

(3) Calendar month average sulfur content and heat content of coal;

(4) Calendar month average sulfur dioxide emission rates in pounds per million Btu of heat input.

326 IAC 7-1.1, 7-2-1, and 326 IAC 3-4, 3-5, 3-6, and 3-7 are not federally enforceable.

(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.4.4, D.4.7, D.4.8, D.4.11, D.4.13, D.4.14, and D.4.15, the Permittee shall maintain records in accordance with (1) through (6) below. Records shall be complete and sufficient to establish compliance with the limits estab-

lished in Section C - Opacity and Conditions D.4.4, D.4.7, D.4.8, D.4.11, D.4.13, D.4.14, and D.4.15.

(1) Data and results from the most recent stack test.

(2) All continuous emissions monitoring data.

(3) All ESP total power readings.

(4) The results of all ESP inspections and the type and number of parts replaced.

(5) All preventive maintenance measures taken.

(6) 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:

(A) All documentation supporting initial notifications and notifications of compliance status under 40 CFR 63.9.

(B) 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).

(4) The Permittee shall keep records of the results of the inspections of the components of the combustion systems of kilns #1, #2, and #3, required by 40 CFR 63.1350 and Condition D.4.12(b), at least once per year.

(e) To document compliance with the CAM record keeping requirements in 40 CFR 64.9, the permittee shall maintain the following records for Preheater Kilns #1 and #2, on site:

(1) Monitoring data.

(2) Monitor Performance Data.

(3) Corrective Action Taken.

(f) To document compliance with Condition D.4.1(a), the Permittee shall maintain records of the Clinker production from Kiln #1 (EU15) and Kiln #2 (EU16).

(g) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.4.17 Reporting Requirements

(a) A quarterly summary of the information to document compliance with the SO_2 limit specified in Condition D.4.2 shall be submitted to the address listed in Section C -

General Reporting Requirements, of this permit, using the reporting form located at the end of this permit, or its equivalent, within thirty (30) days after the end of the quarter being reported. This report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(b) 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, Subpart A.

(c) 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.4.4.

(2) All failures to verify the calibration of the thermocouples and other temperature sensors as required under 40 CFR 63.1350(f)(6).

(3) The results of any combustion system component inspections conducted within the reporting period as required by Condition D.4.12(b).

(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.

(d) To document compliance with the NESHAP, 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.4.12 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, 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) 233-5674 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.

(e) In addition to being submitted to the address listed in Section C - General Reporting Requirements, all reports and the operations and maintenance plan 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), the reports submitted by the Permittee shall include the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

(f) To document compliance with the reporting requirements in 40 CFR 64.9(a)(2), the permittee shall report the information required by this rule, including but not limited to:

(1) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions and 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)

(g) A quarterly summary of the information to document compliance with Condition D.4.1(a) shall be submitted to the address listed in Section C - General Reporting Requirements, using the reporting forms located at the end of this permit, or the equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

SECTION D.5 FACILITY/EMISSION UNIT OPERATION CONDITIONS

Facility/Emissions Unit Description [326 IAC 2-7-5(15)]

The clinker cooler facilities/emissions units, as follows:

(1) One (1) clinker cooler #1, identified as EU19, constructed in 1959, with a nominal rate of 38 tons per hour, with PM emissions controlled by one (1) baghouse, identified as KDC2, and exhausting to one (1) stack, identified as S-KDC2.

(2) One (1) clinker cooler #2, identified as EU21, constructed in 1959, with a nominal rate of 38 tons per hour, with PM emissions controlled by one (1) baghouse, identified as KDC4, and exhausting to one (1) stack, identified as S-KDC4.

(3) One (1) clinker cooler #3, identified as EU23, constructed in 1974, with a nominal rate of 43 tons per hour, with PM emissions controlled by one (1) baghouse, identified as KDC6, and exhausting to one (1) stack, identified as S-KDC6.

(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.5.1 Prevention of Significant Deterioration (PSD) [326 IAC 2-2]

Pursuant to Significant Permit Modification 093-16851-00002 issued in 2003, in order to render the requirement of 326 IAC 2-2 (PSD) not applicable to the Kiln preheater modification, upon startup of the preheater Kilns #1 and #2, PM and PM_{10} emissions from baghouse KDC2 and baghouse KDC4 controlling Clinker Cooler #1 (EU19) and Clinker Cooler #2 (EU20) respectively shall each not exceed 11.41 pounds per hour. Therefore the requirements of 326 IAC 2-2 (PSD) are not applicable to the preheater modification.

D.5.2 Determinations of Nonapplicability [40 CFR 60, Subparts A and F]

The clinker coolers #1 and #2 (EU19 and EU21) 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 and have not been modified since the applicability date.

D.5.3 General Provisions Relating to NESHAP [326 IAC 20-1][40 CFR Part 63, Subpart A]

On and after June 14, 2002, the provisions of 40 CFR Part 63, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 20-1, apply to the clinker coolers (EU19, EU21 and EU23) described in this section except when otherwise specified in 40 CFR Part 63, Subpart LLL.

D.5.4 NESHAP Emissions Limitation [40 CFR 63, Subpart LLL]

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 (EU19, EU21 and EU23) shall be limited as follows:

(a) Particulate matter (PM) emissions shall be limited to 0.10 pound per ton of feed (dry basis) to the kiln.

(b) Visible emissions shall be limited to ten percent (10%) opacity.

D.5.5 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities/emissions units and their control devices listed in this section. If the Operations and Maintenance Plan required by Condition D.5.10 is developed in accordance with Section B - Preventive Maintenance Plan, then once the Operations and Maintenance Plan has been developed, it shall satisfy this condition.

Compliance Determination Requirements

D.5.6 NESHAP Testing Requirements [40 CFR 63, Subpart LLL]

Within 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.5.4 by conducting performance tests in accordance with 40 CFR 63.1349 and Section C - Performance Testing. The PM tests shall be repeated at least once every 5 years from the date of this valid compliance demonstration.

D.5.7 Cyclical Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

The Permittee shall demonstrate compliance with the PM and PM_{10} limits established in condition D.5.1 within 180 days from the startup of preheater Kilns #1 and #2, by conducting performance tests for PM and PM_{10} from Clinker Cooler #1 and Clinker Cooler #2, utilizing methods as approved by the Commissioner. Testing shall be conducted in accordance with Section C - Performance Testing. These PM and PM_{10} tests shall be conducted every 2.5 years. PM_{10} includes filter-able and condensible PM_{10}.

D.5.8 Continuous Emissions Monitoring [326 IAC 3-5] [326 IAC 2-1.1-11] [40 CFR 63, Subpart LLL]

(a) Pursuant to 326 IAC 3-5 (Continuous Monitoring of Emissions), 326 IAC 2-1.1-11, and 40 CFR Part 63, a continuous monitoring system shall be installed, calibrated, maintained, and operated for measuring opacity from the clinker coolers (EU19, EU21 and EU23). 326 IAC 3-5 is not federally enforceable.

(b) The continuous monitoring systems shall meet the performance specifications of 326 IAC 3-5-2 and 40 CFR 63.8(c). 326 IAC 3-5 is not federally enforceable.

D.5.9 Particulate Control

Except as otherwise provided by statute, rule or this permit, each baghouse (KDC2, KDC4 and KDC6) for PM control shall be in operation at all times when its associated clinker cooler is in operation, in order to demonstrate compliance with Condition D.5.1 and D.5.4.

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

D.5.10 NESHAP Monitoring Requirements [40 CFR 63, Subpart LLL]

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:

(a) The Permittee shall have prepared a written operations and maintenance plan for the clinker coolers (EU19, EU21 and EU23). The plan shall include the procedures for proper operation and maintenance of the clinker coolers (EU19, EU21 and EU23) and associated air pollution control device(s) in order to meet the emissions limit in Condition D.5.4. Failure to comply with any provision of the operations and maintenance plan shall be a violation of the standard. The contents of the operations and maintenance plan are not included in this permit and may be modified by the Permittee without modification or amendment of this permit.

(b) The Permittee shall continuously monitor opacity of emissions at the outlet of the PM control device. The COM required by Condition D.5.8 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.

D.5.11 Parametric Monitoring

The Permittee shall record the total static pressure drop across each clinker cooler baghouse (KDC2, KDC4 and KDC6), at least once per day when the associated facility/emissions unit is in operation and venting to the atmosphere. When for any one reading, the pressure drop across a baghouse is outside the normal range of 1.0 and 8.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge and Other 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.5.12 Baghouse Inspections

An inspection shall be performed each calendar quarter of all bags controlling the processes listed in this section when venting to the atmosphere. Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.

D.5.13 Broken or Failed Bag Detection

In the event that bag failure has been observed.

(a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if there are no visible emissions from the emission unit, control device, or stack, or if the event qualifies as an emergency and the Permittee satisfies the emergency provisions of this permit (Section B- Emergency Provisions). Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

(b) For single compartment baghouses, if failure is indicated by a significant drop in the baghouse's pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if bag failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, dust traces, or triboflows, then failed units and the associated process will be shut down immediately until the failed units have 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).

D.5.14 Opacity Readings

The ability of the baghouses to control particulate emissions shall be monitored by continuously measuring and recording the opacity of emissions from each of the clinker cooler stack exhausts (S-KDC2, S-KDC4, and S-KDC6).

(a) Appropriate response steps shall be taken in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports whenever the opacity exceeds 8 percent for three (3) consecutive six (6) minute averaging periods. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

(b) The opacity shall be determined by the certified continuous opacity monitor required in Condition D.5.8.

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

D.5.15 Record Keeping Requirements

(a) To document compliance with Conditions D.5.4, D.5.6, D.5.7, and D.5.8, the Permittee shall maintain records in accordance with (1) and (2) below.

(1) Data and results from the most recent stack test.

(2) All continuous emissions monitoring data.

(b) To document compliance with Condition D.5.11, the Permittee shall maintain records of the differential static pressure of each baghouse once per day.

(c) To document compliance with Condition D.5.12, the Permittee shall maintain records of the results of the inspections required under Condition D.5.12.

(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:

(A) All documentation supporting initial notifications and notifications of compliance status under 40 CFR 63.9.

(B) 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) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.5.16 Reporting Requirements

(a) A quarterly summary of excess opacity emissions, as defined in 326 IAC 3-5-7 and 40 CFR 63.10, 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. If applicable, the excess opacity summary shall also be submitted in accordance with 40 CFR 63.1354(8) (beginning June 14, 2002).

(b) 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, Subpart A.

(c) 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 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.

(d) 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.5.10 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, 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) 233-5674 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.

(e) In addition to being submitted to the address listed in Section C - General Reporting Requirements, all reports and the operations and maintenance plan 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), the reports submitted by the Permittee shall include the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

SECTION D.6 FACILITY/EMISSION UNIT OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)] Insignificant Activity

Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6 including one parts washer constructed in 1991.

(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.6.1 Volatile Organic Compounds (VOC)

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations), for cold cleaning operations 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 operation 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.6.2 Volatile Organic Compounds (VOC)

(a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), for a cold cleaner degreaser facility, constructed 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 ($38^{O}C$) (one hundred degrees Fahrenheit ($100^{O}F$));

(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 ($38^{O}C$) (one hundred degrees Fahrenheit ($100^{O}F$)), 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 ($38^{O}C$) (one hundred degrees Fahrenheit ($100^{O}F$)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius ($48.9^{O}C$) (one hundred twenty degrees Fahrenheit ($120^{O}F$)):

(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 of 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), the owner or operator of a cold cleaning facility, construction of which commenced after July 1, 1990, 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.6.3 Determination of Nonapplicability [40 CFR 63.460 (Subpart T)] [40 CFR 60, Subparts A and F] [40 CFR 63, Subparts A and LLL]

(a) None of the parts washers specifically listed in this section are subject to the requirements of the National Emissions Standards for Hazardous Air Pollutants (NESHAP) 326 IAC 20-1, 40 CFR 63.460 (Subpart T) because they do not utilize a solvent containing methylene chloride, perchloroethylene, trichloroethylene, 1,1,1-trichloroethane, carbon tetrachloride, or chloroform, or any combination of these halogens, in a total concentration greater than five percent by weight.

(b) The parts washers at this source 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 not considered affected facilities under this rule.

(c) The parts washers at this source are not 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.

SECTION D.7 FACILITY/EMISSION UNIT OPERATION CONDITIONS

Facility/Emissions Unit Description [326 IAC 2-7-5(15)]

Calcium sulfate material facilities/emission units, consisting of the following:

(iii) Two (2) storage piles, identified as F10 and F12, with emissions uncontrolled and exhausting to the atmosphere, potential capacity: 0.10 and 0.05 acres, respectively.

(jjj) One (1) synthetic gypsum hopper, identified as F11, with emissions uncontrolled and exhausting to the atmosphere, maximum throughput: 60 tons per hour.

(kkk) One (1) synthetic gypsum weight belt, identified as F15, with emissions uncontrolled and exhausting to the atmosphere, maximum throughput: 60 tons per hour.

(lll) One (1) raw material hopper, identified as F13, with emissions uncontrolled and exhausting to the atmosphere, maximum throughput: 60 tons per hour.

(mmm) One (1) raw material weight belt, identified as F16, with emissions uncontrolled and exhausting to the atmosphere, maximum throughput: 60 tons per hour.

(nnn) One (1) main belt #1, identified as F17, with emissions uncontrolled and exhausting to the atmosphere, maximum throughput: 100 tons per hour.

(ooo) One (1) enclosed CKD conveyor #1, identified as EU50, maximum throughput: 50 tons per hour.

(ppp) One (1) CKD storage silo, identified as EU48, previously used as a blending bin, with particulate emissions controlled by an existing baghouse, identified as RMDC5, and exhausting to stack S-RMDC5, maximum throughput: 50 tons per hour.

(qqq) One (1) enclosed CKD conveyor #2, identified as EU51, maximum throughput: 50 tons per hour.

(rrr) One (1) enclosed pugmill, identified as EU49, maximum capacity: 100 tons per hour.

(sss) One (1) main belt #2, identified as F18, with emissions uncontrolled and exhausting to the atmosphere, maximum throughput: 100 tons per hour.

(ttt) One (1) outdoor, partially enclosed calcium sulfate material storage pile, identified as F14, potential capacity: 0.10 acre.

(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.7.1 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 following calcium sulfate material facilities/emission units except when otherwise specified in 40 CFR Part 63, Subpart LLL: one (1) synthetic gypsum hopper (F11), one (1) raw material hopper (F13), and one (1) enclosed pugmill (EU49); and the conveyor transfer points associated with the one (1) synthetic gypsum weight belt (F15), one (1) raw material weight belt (F16), one (1) main belt #1 (F17), and one (1) main belt #2 (F18).

D.7.2 NESHAP Emissions Limitation [326 IAC 20-27] [40 CFR 63.1348]

Pursuant to 40 CFR 63.1348 (Emissions Standards and Operating Limits), the visible emissions from the following calcium sulfate material facilities/emission units shall each not exceed ten percent (10%) opacity: one (1) synthetic gypsum hopper (F11), one (1) raw material hopper (F13), and one (1) enclosed pugmill (EU49); and the conveyor transfer points associated with the one (1) synthetic gypsum weight belt (F15), one (1) raw material weight belt (F16), one (1) main belt #1 (F17), and one (1) main belt #2 (F18).

D.7.3 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the calcium sulfate material facilities/emission units shall not exceed 51.3 pounds per hour, total, when operating at a process weight rate of 100 tons per hour.

The pounds per hour limitation was calculated with the following equation:

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

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

D.7.4 PSD Minor Limit [326 IAC 2-2]

Pursuant to Significant Permit Modification 093-18649-00002, issued in 2004, the following conditions shall apply upon issuance:

(a) The material input to the synthetic gypsum and raw materials storage piles (F10 and F12) shall not exceed 50,000 tons per twelve (12) consecutive month period, total, with compliance determined at the end of each month. The PM emissions shall not exceed 0.0121 pounds per ton of material input, and the PM_{10} emissions shall not exceed 0.0057 pounds per ton of material input.

(b) The material input to the synthetic gypsum hopper (F11) shall not exceed 35,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month. The PM emissions shall not exceed 0.0121 pounds per ton of material input, and the PM_{10} emissions shall not exceed 0.0057 pounds per ton of material input.

(c) The material input to the synthetic gypsum weight belt (F15) shall not exceed 35,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month. The PM emissions shall not exceed 0.0121 pounds per ton of material input, and the PM_{10} emissions shall not exceed 0.0057 pounds per ton of material input.

(d) The material input to the raw material hopper (F13) shall not exceed 15,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month. The PM emissions shall not exceed 0.0121 pounds per ton of material input, and the PM_{10} emissions shall not exceed 0.0057 pounds per ton of material input.

(e) The material input to the raw material weight belt (F16) shall not exceed 15,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month. The PM emissions shall not exceed 0.0121 pounds per ton of material input, and the PM_{10} emissions shall not exceed 0.0057 pounds per ton of material input.

(f) The material input to the Main Belt #1 (F17) shall not exceed 50,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month. The

PM emissions shall not exceed 0.0121 pounds per ton of material input, and the PM_{10} emissions shall not exceed 0.0057 pounds per ton of material input.

(g) The material input to the CKD silo (EU48) shall not exceed 35,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month. The PM emissions shall not exceed 0.0121 pounds per ton of material input, and the PM_{10} emissions shall not exceed 0.0057 pounds per ton of material input.

(h) The material input to the pugmill (EU49) shall not exceed 85,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month. The PM emissions shall not exceed 0.0121 pounds per ton of material input, and the PM_{10} emissions shall not exceed 0.0057 pounds per ton of material input.

(i) The material input to the Main Belt #2 (F18) shall not exceed 85,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month. The PM emissions shall not exceed 0.0121 pounds per ton of material input, and the PM_{10} emissions shall not exceed 0.0057 pounds per ton of material input.

(j) The material input to the outdoor calcium sulfate material storage pile (F14) shall not exceed 85,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month. The PM emissions shall not exceed 0.0121 pounds per ton of material input, and the PM_{10} emissions shall not exceed 0.0057 pounds per ton of material input.

These limits will ensure that the PM and PM_{10} emissions increase from the modifications permitted in Significant Permit Modification 093-16851-00002 issued on July 11, 2003, and Significant Permit Modification 093-18649-00002 issued in 2004 will not exceed 25 and 15 tons per year, respectively. Therefore, the requirements of 326 IAC 2-2 (PSD) are not applicable to these modifications.

D.7.5 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities/emissions units and their control devices listed in this section.

Compliance Determination Requirements

D.7.6 NESHAP Testing Requirements [326 IAC 20-27] [40 CFR 63.1349]

Within 180 days after startup of the one (1) synthetic gypsum hopper (F11), one (1) raw material hopper (F13), and one (1) enclosed pugmill (EU49); and the conveyor transfer points associated with the one (1) synthetic gypsum weight belt (F15), one (1) raw material weight belt (F16), one (1) main belt #1 (F17), and one (1) main belt #2 (F18), the Permittee shall demonstrate initial compliance with the opacity limits established in Condition D.7.2 by conducting performance tests in accordance with 40 CFR 63.1349 and Method 9 of 40 CFR Part 60, Appendix A.

D.7.7 Particulate Control

In order to comply with condition D.7.3, the baghouse for particulate control shall be in operation and control emissions from the CKD storage silo, identified as EU48, at all times that the CKD storage silo is in operation.

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

D.7.8 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

All monitoring and record keeping requirements in this section shall be implemented when operation begins. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment.

D.7.9 NESHAP Monitoring Requirements [326 IAC 20-27] [40 CFR 63.1350]

Pursuant to 40 CFR 63.1350 (Monitoring Requirements), the Permittee shall prepare a written operations and maintenance plan for the following calcium sulfate material facilities/emission units: the one (1) synthetic gypsum hopper (F11), one (1) raw material hopper (F13), and one (1) enclosed pugmill (EU49); and the conveyor transfer points associated with the one (1) synthetic gypsum weight belt (F15), one (1) raw material weight belt (F16), one (1) main belt #1 (F17), and one (1) main belt #2 (F18), upon startup. The plan shall include the following information:

(a) Procedures for proper operation and maintenance of the affected sources in order to meet the emissions limit in the rule; and

(b) 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:

(1) 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.

(2) 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.

(3) 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.

(4) 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.

(5) The requirement to conduct Method 22 visible emissions monitoring under this paragraph shall not apply to any totally enclosed conveying system transfer point, regardless of the location of the transfer point. “Totally enclosed conveying system transfer point” shall mean a conveying system transfer point that is enclosed on all sides, top, and bottom. The enclosures for these transfer points shall be operated and maintained as total enclosures on a continuing basis in accordance with the facility operations and maintenance plan.

(6) If any partially enclosed or unenclosed conveying system transfer point is located in a building, the Permittee shall have the option to conduct a Method 22 visible emissions monitoring test according to the requirements of paragraphs (1) through (4) of this section for each such conveying system transfer point located within the building, or for the building itself, according to paragraph (7) below.

(7) If visible emissions from a building are monitored, the requirements of paragraphs (1) through (4) of this section apply to the monitoring of the building, and the Permittee shall also test visible emissions from each side, roof and vent of the building for at least 1 minute. The test must be conducted under normal operating conditions.

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

D.7.10 Visible Emissions Notations

(a) Visible emission notations of the calcium sulfate material facilities/emission units, including the synthetic gypsum hopper (F11), synthetic gypsum weight belt (F15), raw material hopper (F13), raw material weight belt (F16), main belt #1 (F17), CKD storage silo (EU48), main belt #2 (F18), and all transfer points shall be performed once per shift 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, 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) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

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

D.7.11 Record Keeping Requirements [326 IAC 20-27] [40 CFR 63.1355]

(a) 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:

(A) All documentation supporting initial notifications and notifications of compliance status under 40 CFR 63.9.

(B) All records of applicability determination, including supporting analyses.

(b) To document compliance with Condition D.7.4, the Permittee shall maintain records of the material input to each process at the calcium sulfate material facilities/emission units. Records shall be complete and sufficient to demonstrate compliance with Condition D.7.4.

(c) To document compliance with Condition D.7.5, the Permittee shall maintain records of any additional inspections prescribed by the Preventive Maintenance Plan.

(d) To document compliance with Condition D.7.10, the Permittee shall maintain records of visible emission notations of the calcium sulfate material facilities/emission units, including the synthetic gypsum hopper (F11), synthetic gypsum weight belt (F15), raw material hopper (F13), raw material weight belt (F16), main belt #1 (F17), CKD storage silo (EU48), main belt #2 (F18), and all transfer points once per shift.

(e) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.7.12 Reporting Requirements [326 IAC 20-27] [40 CFR 63.1354]

(a) 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 40 CFR 63.1350 shall be submitted to IDEM, OAQ and U.S. EPA upon startup of the one (1) synthetic gypsum hopper (F11), one (1) raw material hopper (F13), and one (1) enclosed pugmill (EU49); and the conveyor transfer points associated with the one (1) synthetic gypsum weight belt (F15), one (1) raw material weight belt (F16), one (1) main belt #1 (F17), and one (1) main belt #2 (F18).

(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,

(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, 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) 233-5674 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.

(b) 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 all failures to comply with any provision of the operation and maintenance plan developed in accordance with 40 CFR 63.1350(a).

(c) In addition to being submitted to the address listed in Section C - General Reporting Requirements, all reports required by this section and the operations and maintenance plan 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), the reports submitted by the Permittee shall include the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

D.7.13 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.7.4 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 their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

PART 70 OPERATING PERMIT CERTIFICATION

Source Name: Lehigh Cement Company
Source Address: 121 North First Street, Mitchell, Indiana 47446
Mailing Address: P.O. Box 97, Mitchell, Indiana 47446
Part 70 Permit No.: T093-5990-00002

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:

Date:

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY

COMPLIANCE DATA SECTION
100 North Senate Avenue
Indianapolis, Indiana 46204-2251
Phone: 317-233-5674
Fax: 317-233-5967

PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT

Source Name: Lehigh Cement Company
Source Address: 121 North First Street, Mitchell, Indiana 47446
Mailing Address: P.O. Box 97, Mitchell, Indiana 47446
Part 70 Permit No.: T093-5990-00002

This form consists of 2 pages **Page 1 of 2**

☐ This is an emergency as defined in 326 IAC 2-7-1(12)

- The Permittee must notify the Office of Air Quality (OAQ), within four (**4**) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and
- The Permittee must submit notice by mail or facsimile within two (**2**) working days (Facsimile Number: 317-233-5967), 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:

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_2, VOC, NO_X, 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: _____

Date: _____

Phone: _____

A certification is not required for this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report for Use When Combusting Coal

Source Name: Lehigh Cement Company
Source Address: 121 North First Street, Mitchell, Indiana 47446
Mailing Address: P.O. Box 97, Mitchell, Indiana 47446
Part 70 Permit No.: T093-5990-00002
Facility: Kilns #1, 2, and 3
Parameter: Sulfur Dioxide (SO_2) from coal combustion
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:

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Lehigh Cement Company
Source Address: 121 North First Street, Mitchell, Indiana 47446
Mailing Address: P.O. Box 97, Mitchell, Indiana 47446
Part 70 Permit No.: T093-5990-00002
Facility: The Primary crusher (EU01)
Parameter: Operating Time
Limit: 2,500 hours per 12 consecutive month period with compliance determined at the end of each month

YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
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:

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Lehigh Cement Company
Source Address: 121 North First Street, Mitchell, Indiana 47446
Mailing Address: P.O. Box 97, Mitchell, Indiana 47446
Part 70 Permit No.: T093-5990-00002
Facility: The Surge Bin and Transfer System (EU02)
Parameter: Operating Time
Limit: 2,500 hours per 12 consecutive month period with compliance determined at the end of each month

YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
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: _____

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Lehigh Cement Company
Source Address: 121 North First Street, Mitchell, Indiana 47446
Mailing Address: P.O. Box 97, Mitchell, Indiana 47446
Part 70 Permit No.: T093-5990-00002
Facility: The Secondary Crusher (EU03)
Parameter: Operating Time
Limit: 2,500 hours per 12 consecutive month period with compliance determined at the end of each month

YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
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: _____

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Lehigh Cement Company
Source Address: 121 North First Street, Mitchell, Indiana 47446
Mailing Address: P.O. Box 97, Mitchell, Indiana 47446
Part 70 Permit No.: T093-5990-00002
Facility: The Tertiary Crusher (EU04)
Parameter: Operating Time
Limit: 2,500 hours per 12 consecutive month period with compliance determined at the end of each month

YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
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: _____

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Lehigh Cement Company
Source Address: 121 North First Street, Mitchell, Indiana 47446
Mailing Address: P.O. Box 97, Mitchell, Indiana 47446
Part 70 Permit No.: T093-5990-00002
Facility: The North Screen House (EU05)
Parameter: Operating Time
Limit: 2,500 hours per 12 consecutive month period with compliance determined at the end of each month

YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
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: _____

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Lehigh Cement Company
Source Address: 121 North First Street, Mitchell, Indiana 47446
Mailing Address: P.O. Box 97, Mitchell, Indiana 47446
Part 70 Permit No.: T093-5990-00002
Facility: The South Screen House (EU06)
Parameter: Operating Time
Limit: 2,500 hours per 12 consecutive month period with compliance determined at the end of each month

YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
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: _____

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Lehigh Cement Company
Source Address: 121 North First Street, Mitchell, Indiana 47446
Mailing Address: P.O. Box 97, Mitchell, Indiana 47446
Part 70 Permit No.: T093-5990-00002
Facility: The Belt 7/8 Conveyor Transfer Point (EU07)
Parameter: Operating Time
Limit: 2,500 hours per 12 consecutive month period with compliance determined at the end of each month

YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
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: _____

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Lehigh Cement Company
Source Address: 121 North First Street, Mitchell, Indiana 47446
Mailing Address: P.O. Box 97, Mitchell, Indiana 47446
Part 70 Permit No.: T093-5990-00002
Facility: The Belt 8/9 Conveyor transfer point (EU08)
Parameter: Operating Time
Limit: 2,500 hours per 12 consecutive month period with compliance determined at the end of each month

YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
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: _____

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Lehigh Cement Company
Source Address: 121 North First Street, Mitchell, Indiana 47446
Mailing Address: P.O. Box 97, Mitchell, Indiana 47446
Part 70 Permit No.: T093-5990-00002
Facility: Conveying System to Transport Raw Material to Storage (EU09)
Parameter: Operating Time
Limit: 2,500 hours per 12 consecutive month period with compliance determined at the end of each month

YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
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: _____

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Lehigh Cement Company
Source Address: 121 North First Street, Mitchell, Indiana 47446
Mailing Address: P.O. Box 97, Mitchell, Indiana 47446
Part 70 Permit No.: T093-5990-00002
Facility: Shale Crusher (EU10)
Parameter: Operating Time
Limit: 2,500 hours per 12 consecutive month period with compliance determined at the end of each month

YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
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: _____

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Lehigh Cement Company
Source Address: 121 North First Street, Mitchell, Indiana 47446
Mailing Address: P.O. Box 97, Mitchell, Indiana 47446
Part 70 Permit No.: T093-5990-00002
Facility: Lime Bin (EU38)
Parameter: Operating Time
Limit: 2,500 hours per 12 consecutive month period with compliance determined at the end of each month

YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
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: _____

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Lehigh Cement Company
Source Address: 121 North First Street, Mitchell, Indiana 47446
Mailing Address: P.O. Box 97, Mitchell, Indiana 47446
Part 70 Permit No.: T093-5990-00002
Facility: Finish Mill Surge Bin (EU37)
Parameter: Operating Time
Limit: 1,500 hours per 12 consecutive month period with compliance determined at the end of each month

YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
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: _____

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Lehigh Cement Company
Source Address: 121 North First Street, Mitchell, Indiana 47446
Mailing Address: P.O. Box 97, Mitchell, Indiana 47446
Part 70 Permit No.: T093-5990-00002
Facility: Railroad Loadout Bin (EU45) and Articuloader (EU46)
Parameter: Operating Time
Limit: 2,000 hours per 12 consecutive month period with compliance determined at the end of each month

YEAR:

Month	Column 1	Column 1	Column 2	Column 1 + Column 2
	This Month	This Month	Previous 11 Months	12 Month Total
Month 1	Railroad Loadout Bin (EU45)			
	Articuloader (EU46)			
Month 2	Railroad Loadout Bin (EU45)			
	Articuloader (EU46)			
Month 3	Railroad Loadout Bin (EU45)			
	Articuloader (EU46)			

☐ No deviation occurred in this quarter.

☐ Deviation/s occurred in this quarter.
Deviation has been reported on: _____

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

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Lehigh Cement Company
Source Address: 121 North First Street, Mitchell, Indiana 47446
Mailing Address: P.O. Box 97, Mitchell, Indiana 47446
Part 70 Permit No.: T093-5990-00002
Facility: Packing Machine (EU47)
Parameter: Operating Time
Limit: 5,500 hours per 12 consecutive month period with compliance determined at the end of each month

YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
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: _____

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Lehigh Cement Company
Source Address: 121 North First Street, Mitchell, Indiana 47446
Mailing Address: P.O. Box 97, Mitchell, Indiana 47446
Part 70 Permit No.: T093-5990-00002
Facility: Kiln #1 (EU15) and Kiln #2 (EU16)
Parameter: Throughput
Limit: 321,875 tons each per 12 consecutive month period with compliance determined at the end of each month

YEAR:

Month	Facility	Column 1	Column 2	Column 1 + Column 2
		This Month	Previous 11 Months	12 Month Total
Month 1	Kiln #1			
	Kiln #2			
Month 2	Kiln #1			
	Kiln #2			
Month 3	Kiln #1			
	Kiln #2			

☐ No deviation occurred in this quarter.

☐ Deviation/s occurred in this quarter.
Deviation has been reported on: _____

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

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

PART 70 OPERATING PERMIT
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT

Source Name: Lehigh Cement Company
Source Address: 121 North First Street, Mitchell, Indiana 47446
Mailing Address: P.O. Box 97, Mitchell, Indiana 47446
Part 70 Permit No.: T093-5990-00002

Months: _____ **to** _____ **Year:** _____

This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, 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:

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

Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Lehigh Cement Company
Source Address: 121 North First Street, Mitchell, Indiana 47446
Mailing Address: P.O. Box 97, Mitchell, Indiana 47446
Part 70 Permit No.: T093-5990-00002
Facilities: Storage Piles (F10 and F12)
Parameter: Material input
Limit: 50,000 tons per twelve (12) consecutive month period, total, with compliance determined at the end of each month

YEAR: _____

Month	Material Input (tons)	Material Input (tons)	Material Input (tons)
	This Month	Previous 11 Months	12 Month Total

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Lehigh Cement Company
Source Address: 121 North First Street, Mitchell, Indiana 47446
Mailing Address: P.O. Box 97, Mitchell, Indiana 47446
Part 70 Permit No.: T093-5990-00002
Facility: Synthetic Gypsum Hopper (F11)
Parameter: Material input
Limit: 35,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month

YEAR: _____

Month	Material Input (tons)	Material Input (tons)	Material Input (tons)
	This Month	Previous 11 Months	12 Month Total

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Lehigh Cement Company
Source Address: 121 North First Street, Mitchell, Indiana 47446
Mailing Address: P.O. Box 97, Mitchell, Indiana 47446
Part 70 Permit No.: T093-5990-00002
Facility: Synthetic Gypsum Weight Belt (F15)
Parameter: Material input
Limit: 35,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month

YEAR: _____

Month	Material Input (tons)	Material Input (tons)	Material Input (tons)
	This Month	Previous 11 Months	12 Month Total

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Lehigh Cement Company
Source Address: 121 North First Street, Mitchell, Indiana 47446
Mailing Address: P.O. Box 97, Mitchell, Indiana 47446
Part 70 Permit No.: T093-5990-00002
Facility: Raw Material Hopper (F13)
Parameter: Material input
Limit: 15,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month

YEAR: _____

Month	Material Input (tons)	Material Input (tons)	Material Input (tons)
	This Month	Previous 11 Months	12 Month Total

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Lehigh Cement Company
Source Address: 121 North First Street, Mitchell, Indiana 47446
Mailing Address: P.O. Box 97, Mitchell, Indiana 47446
Part 70 Permit No.: T093-5990-00002
Facility: Raw Material Weight Belt (F16)
Parameter: Material input
Limit: 15,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month

YEAR: _____

Month	Material Input (tons)	Material Input (tons)	Material Input (tons)
	This Month	Previous 11 Months	12 Month Total

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Lehigh Cement Company
Source Address: 121 North First Street, Mitchell, Indiana 47446
Mailing Address: P.O. Box 97, Mitchell, Indiana 47446
Part 70 Permit No.: T093-5990-00002
Facility: Main Belt #1 (F17)
Parameter: Material input
Limit: 50,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month

YEAR: _____

Month	Material Input (tons)	Material Input (tons)	Material Input (tons)
	This Month	Previous 11 Months	12 Month Total

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Lehigh Cement Company
Source Address: 121 North First Street, Mitchell, Indiana 47446
Mailing Address: P.O. Box 97, Mitchell, Indiana 47446
Part 70 Permit No.: T093-5990-00002
Facility: CKD Silo (EU48)
Parameter: Material input
Limit: 35,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month

YEAR: _____

Month	Material Input (tons)	Material Input (tons)	Material Input (tons)
	This Month	Previous 11 Months	12 Month Total

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Lehigh Cement Company
Source Address: 121 North First Street, Mitchell, Indiana 47446
Mailing Address: P.O. Box 97, Mitchell, Indiana 47446
Part 70 Permit No.: T093-5990-00002
Facility: Pugmill (EU49)
Parameter: Material input
Limit: 85,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month

YEAR: _____

Month	Material Input (tons)	Material Input (tons)	Material Input (tons)
	This Month	Previous 11 Months	12 Month Total

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Lehigh Cement Company
Source Address: 121 North First Street, Mitchell, Indiana 47446
Mailing Address: P.O. Box 97, Mitchell, Indiana 47446
Part 70 Permit No.: T093-5990-00002
Facility: Main Belt #2 (F18)
Parameter: Material input
Limit: 85,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month

YEAR: _____

Month	Material Input (tons)	Material Input (tons)	Material Input (tons)
	This Month	Previous 11 Months	12 Month Total

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Lehigh Cement Company
Source Address: 121 North First Street, Mitchell, Indiana 47446
Mailing Address: P.O. Box 97, Mitchell, Indiana 47446
Part 70 Permit No.: T093-5990-00002
Facility: Outdoor Calcium Sulfate Material Storage Pile (F14)
Parameter: Material input
Limit: 85,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month

YEAR: _____

Month	Material Input (tons)	Material Input (tons)	Material Input (tons)
	This Month	Previous 11 Months	12 Month Total

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

Indiana Department of Environmental Management
Office of Air Quality

Addendum to a Technical Support Document (TSD) for a Significant Source Modification and a Significant Permit Modification for a Part 70 Permit

Source Background and Description

Source Name:	Lehigh Cement Company
Source Location:	121 North First Street, P.O. Box 97, Mitchell, Indiana 47446
County:	Lawrence
SIC Code:	3241
Operation Permit No.:	T093-5990-00002
Operation Permit Issuance Date:	December 30, 2002
Significant Source Modification No.:	093-21793-00002
Significant Permit Modification No.:	093-21975-00002
Permit Reviewer:	Walter Habeeb

On March 1, 2006 the Office of Air Quality (OAQ) had a notice published in The Bedford Times-Mail Newspaper in Lawrence County, stating that Lehigh Cement Company had applied for a Significant Source Modification and a Significant Permit Modification to modify their existing Kiln #1 and Kiln #2. The notice also stated that OAQ proposed to issue a permit for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether this permit should be issued as proposed.

On March 31, 2006, Lehigh Cement Company submitted comments on the proposed Significant Source Modification and Significant Permit Modification. A summary of the comments and the IDEM response is as follows (bold language has been added and language with a line through it has been deleted):

Comment 1

> IDEM should only include the affected conditions/pages of Lehigh's Part 70 Operating Permit in the Significant Permit Modification No. 093-21975-00002. IDEM has issued numerous Significant Permit Modifications utilizing this method of attaching the affected conditions/pages without reissuing the entire permit, and has even done so in the last thirty (30) days.
>
> Lehigh appealed its Initial Part 70 Operating Permit, its First Significant Permit Modification and its Second Significant Permit Modification to the Indiana Office of Environmental Adjudication and Lehigh and IDEM staff have spent numerous hours negotiating stay agreements regarding these appeals. Lehigh would like to avoid having to appeal its Significant Permit and Source Modifications Nos. 093-21975-00002 and 093-21793-00002 to clarify the amendments to its existing Part 70 Operating Permit and the effectiveness of the terms and conditions of its existing stay agreements and previously issued permits.
>
> Moreover, the changes to Lehigh's Part 70 Operating Permit will be much more apparent and less confusing to both Lehigh and the public if the Permit Modification attaches only the affected conditions/pages rather than the entire permit.
>
> In any event, the letter/approval accompanying the Permit Modification should set forth and explain the changes to Lehigh's Part 70 Operating Permit as drafted in the red-lined copy of the draft approval letter attached as **Attachment A1**.

Response 1

IDEM's current practice is to issue the entire permit when issuing a significant permit modification. Therefore, IDEM will issue the entire permit. However, IDEM has agreed to change the Significant Permit Modification Approval Letter as requested.

Comment 2

Even though estimated emissions from Lehigh's proposed treated wood modification request indicate that hazardous air pollutant ("HAP") emissions fall below the ten tons per year (10 tpy) threshold for a single HAP and the twenty-five tons per year (25 tpy) threshold for any combination of HAPs, Lehigh conservatively requested that its Treated Wood Modification Request be processed as a significant modification because no U.S. EPA AP-42 emission factors exist for kilns utilizing a blended fuel of coal and treated wood, thus Lehigh had to rely on emission factors for kilns burning coal. Since the proposed modification does not involve any construction and is subject to 326 IAC 2-7-10.5 because the source is otherwise being modified as described in the rule, please modify the Significant Source Modification Approval letter consistent with the red-lined copy of the draft approval letter attached as **Attachment B1**. References to construction in the approval letter are misleading and confusing.

Lehigh's Source Modification does not involve construction, thus the requirement to commence construction within eighteen (18) months pursuant to 326 IAC 2-1.1-9 and 326 IAC 2-7-10.5(i) is not applicable to Lehigh's modification. In fact, in the last month, IDEM has issued other Source Modification Approval Letters for modifications that do not involve construction without said restriction/condition. Additionally, in accordance with 326 IAC 2-7-10.5(g)(4)(C), the last source modification condition and the paragraph immediately following same need to be amended for clarity.

Response 2

IDEM agrees with the changes proposed in Attachment B1, and the Significant Source Modification Approval Letter has been changed as requested.

Comment 3

Delete the redundant language included on the cover page of the Draft Permit Modification which reads: "The Permittee must comply with all conditions of this permit. . ." This language is already contained in Condition B.8 of Lehigh's existing Part 70 Operating Permit.

Response 3

IDEM agrees and has modified the cover page of the Significant Permit Modification No. 093-21975-00002 as requested:

~~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.~~

Comment 4

The cover page of both the Draft Permit and Source Modifications fails to reference Minor Permit Modification No. 093-21919-00002 that has been proposed to U.S. EPA. Certain of the following comments have been raised and addressed in the Minor Permit Modification; however, because IDEM: (1) did not wait to public notice the Draft Permit and Source Modifications until after issuance of the Minor Permit Modification; (2) did not simply incorporate the Draft Permit and Source Modification changes to the version of Lehigh's Part 70 Operating Permit proposed to U.S. EPA; and (3) because certain conditions in the public-noticed Draft Permit and Source Modifications differ from those agreed to in the Minor Permit Modification, Lehigh will repeat the same comments again in response to this public notice to ensure the necessary changes are made.

Response 4

Minor Permit Modification 093-21919-00002 was issued on April 17, 2006 and has been referenced on the cover page of Significant Source Modification 089-21793-00002 and Significant Permit Modification 089-21975-00002.

Comment 5

The Conditions Affected Sections of the Draft Permit and Source Modifications do not adequately identify the conditions of Lehigh's Part 70 Operating Permit that are affected by the modifications. Given that appeals of Lehigh's Part 70 Operating Permit are pending with the Indiana Office of Environmental Adjudication, it is especially important to clarify exactly which conditions are being modified. A simple reference to Sections D.1, D.2, D.3, D.4, D.5 and D.7 of the Part 70 Permit is wholly inadequate. Please modify the Conditions Affected Sections consistent with these comments as follows:

Conditions Affected: Table of Contents B.25, C.20, and C.21; Kiln #1 and Kiln #2 Facility Descriptions in Section A.2(ccc), A.2 (ddd), and D.4; Amended IDEM's address in Sections B.10(a), B.11(a), B.12(b)(5), B.15(b), B.17(a), B.18(b), B.20(a)(4), B.23(b), C.8(d), C.9(a), C.11, C.19(b), C.21(b), C.22(f), and on the Emergency Occurrence Report Form; Conditions B25, C.20, C.21, D.2.9(c), D.2.11(a), and D.4.1.1.

Lehigh assumes that its few remaining comments to Minor Permit Modification No. 093-21919-00002 will be addressed prior to issuance and that the Minor Permit Modification will be issued prior to the Significant Permit and Source Modifications, thus creating the need to only modify the above-referenced conditions.

Response 5

The identifications in the Conditions Affected Section of the Significant Source Modification and the Significant Permit Modification permits have been modified to read as follows:

Conditions Affected: Table of Contents B.25, C.20, and C.21; Kiln #1 and Kiln #2 Facility Descriptions in Section A.2(ccc), A.2 (ddd), and D.4; Amended IDEM's address in Sections B.10(a), B.11(a), B.12(b)(5), B.15(b), B.17(a), B.18(b), B.20(a)(4), B.23(b), C.8(d), C.9(a), C.11, C.19(b), C.21(b), C.22(f), and on the Emergency Occurrence Report Form; Conditions B25, C.20, C.21, D.2.9(c), D.2.11(a), and D.4.1.1.

Comment 6

Please note that the following comments detailing specific changes to permit conditions are intended to apply not only to the Draft Significant Permit Modification, but also to the Draft Significant Source Modification (as the Source Modification includes/attaches a copy of the permit conditions). In that accord, the conditions of Draft Significant Permit Modification and the Draft Significant Source Modification should be identical; however this is not the case as public noticed. *See* the DeltaView generated red-lined pages of the changes existing between the Draft Significant Permit Modification and the Draft Significant Source Modification, attached as **Attachment C**.

In addition, the conditions B.20, D.2.11(b), Facility Description D.4 and D.7.10(e) should be identical in the Significant Permit Modification and the Significant Source Modification.

Please modify the Draft Significant Permit Modification and the Draft Significant Source Modification so the conditions are consistent with the comments below and modify the Draft Source Modification consistent with the Draft Permit Modification.

Attachment C changes are listed and addressed below or elsewhere in this ATSD.

D.2.3 NESHAP Emissions Limitation [40 CFR 63, Subpart LLL]

Pursuant to 40 CFR 63.1348 (Emissions Standards and Operating Limits), the visible emissions from the material storage building (F03), each of the raw mills (EU11, EU11A, EU12, and EU12A), and each conveying system transfer point associated with the Kiln #1 and Kiln #2 alternative fuel delivery systems (F19 and F20) shall each not exceed ten percent (10%) opacity.

D.2.9 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11] [40 CFR 63, Subpart LLL]

(a) Within 180 days after ~~startup~~ **June 14, 2002, which is the compliance date for the Portland Cement Manufacturing Industry NESHAP**, the Permittee shall demonstrate initial compliance with the limit established in Condition D.2.3 for the material storage building (F03) and the raw mills (EU11, EU11A, EU12, EU12A), by conducting a test in accordance with 40 CFR 63.1349 and Method 9 of 40 CFR Part 60, Appendix A. Testing shall be conducted in accordance with Section C - Performance Testing.

(c) Within 180 days after start up of each of the alternative fuel delivery systems (F19 and F20), the Permittee shall demonstrate initial compliance with the ~~opacity~~ limit established in Condition D.2.3 by conducting a test in accordance with 40 CFR 63.1349(b)(2) and Method 9 of 40 CFR Part 60, Appendix A. Testing shall be conducted in accordance with Section C - Performance Testing.

D.2.11 NESHAP Monitoring Requirements [40 CFR 63, Subpart LLL]

Pursuant to 40 CFR 63.1350 (Monitoring Requirements), the Permittee shall prepare a written operations and maintenance plan for the material storage building (F03) and each of the raw mills (EU11, EU11A, EU12 and EU12A) 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~~.~~**; and for the conveyor transfer points associated with the Kiln #1 alternative fuel delivery system (F19) and the conveyor transfer points associated with the Kiln #2 alternative fuel delivery system (F20), upon startup of operations.**

~~Pursuant to 40 CFR 63.1350 (Monitoring Requirements), the Permittee shall prepare a written operations and maintenance plan for each conveyor transfer point associated~~

~~with the Kiln #1 and Kiln #2 alternative fuel delivery systems, upon start up~~.

D.2.14 Broken or Failed Bag Detection

~~In the event that bag failure has been observed.~~

(a) For a single compartment baghouse, controlling emissions from a process operated continuously, failed units and the associated process shall be shut down immediately until the failed units have 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).

D.3.11 Visible Emissions Notations .

(e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a ~~deviation~~ **violation** of this permit.

D.3.12 Parametric Monitoring

The Permittee shall record the pressure drop across each baghouse associated with the raw mill storage facilities/emissions units (EU13, EU14, EU18, EU20 and EU22), the conveyor transfer points associated with the clinker handling facilities/emission units (EU25, EU26a, EU26b, EU27, and EU29) the roll crusher (EU31), the finish mill facilities/emission units (EU32 through EU36 and EU38), and the finish material storage and bulk loading and packaging facilities/emission units (EU37, EU39 through EU47) at least once per day when the associated facility/emission units are in operation and venting to the atmosphere. The Permittee shall record the pressure drop across all other baghouses at least once per day when the associated facility/emission units are in operation and venting to the atmosphere. When for any one reading, the pressure drop across a baghouse is outside the normal range of 1.0 and 8.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a ~~deviation~~ **violation** of this permit.

Response 6

In order to be consistent with Minor Permit Modification 093-21919-00002, D.2.3 and D.2.15 in the SPM 093-21975-00002 and the SSM 093-21793-00002 shall remain unchanged.

IDEM has modified Condition D.2.3 of the SSM 093-21793-00002 to be consistent with SPM 093-21975-00002 and the Minor Permit Modification 093-21919-00002.

In addition, all other conditions in the Significant Permit Modification No. 093-21975-00002 and Significant Source Modification No. 093-21793-00002 have been made identical, and discrepancies between conditions included in the two documents, as public noticed, have been removed.

Consistent with Minor Permit Modification 093-21919-00002, D.2.9, D.3.11, and D.3.12 of the SPM 093-21975-00002 and the SSM 093-21793-00002 have been changed to read as follows:

D.2.9 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11] [40 CFR 63, Subpart LLL]

(a) Within 180 days after ~~startup~~ **June 14, 2002, which is the compliance date for the Portland Cement Manufacturing Industry NESHAP**, the Permittee shall

demonstrate initial compliance with the limit established in Condition D.2.3 for the material storage building (F03) and the raw mills (EU11, EU11A, EU12, EU12A), by conducting a test in accordance with 40 CFR 63.1349 and Method 9 of 40 CFR Part 60, Appendix A. Testing shall be conducted in accordance with Section C - Performance Testing.

(c) Within 180 days after start up of each of the alternative fuel delivery systems (F19 and F20), the Permittee shall demonstrate initial compliance with the limit established in Condition D.2.3 by conducting a test in accordance with 40 CFR 63.1349(b)(2) and Method 9 of 40 CFR Part 60, Appendix A. Testing shall be conducted in accordance with Section C - Performance Testing.

D.3.11 Visible Emissions Notations

(e) The Compliance Response Plan for these units shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

D.3.12 Parametric Monitoring

The Permittee shall record the pressure drop across each baghouse associated with the raw mill storage facilities/emissions units (EU13, EU14, EU18, EU20 and EU22), the con¬veyor transfer points associated with the clinker handling facilities/emission units (EU25, EU26a, EU26b, EU27, and EU29) the roll crusher (EU31), the finish mill facilities/emission units (EU32 through EU36 and EU38), and the finish material storage and bulk loading and packaging facilities/emission units (EU37, EU39 through EU47) at least once per day when the associated facility/emission units are in operation and venting to the atmosphere. The Permittee shall record the pressure drop across all other baghouses at least once per day when the associated facility/emission units are in operation and venting to the atmosphere. When for any one reading, the pressure drop across a baghouse is outside the normal range of 1.0 and 8.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a ~~deviation~~ **violation** of this permit.

Both the SPM 093-21975-00002 and the SSM 093-21793-00002 have been changed to read as follows:

D.2.11 NESHAP Monitoring Requirements [40 CFR 63, Subpart LLL]

(a) Pursuant to 40 CFR 63.1350 (Monitoring Requirements), the Permittee shall prepare a written operations and maintenance plan for the material storage building (F03) and each of the raw mills (EU11, EU11A, EU12 and EU12A) 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~~.~~**; and for the conveyor transfer points associated with the Kiln #1 alternative fuel delivery system (F19) and the conveyor transfer points associated with the Kiln #2 alternative fuel delivery system (F20), upon startup of operations.**

~~Pursuant to 40 CFR 63.1350 (Monitoring Requirements), the Permittee shall prepare a written operations and maintenance plan for each conveyor transfer point associated with the Kiln #1 and Kiln #2 alternative fuel delivery systems, upon start up~~.

Comment 7

Please change “coal and clean or treated wood” in the second paragraphs of Sections A.2(ccc) and (ddd) to “coal and clean and/or treated wood.”

Response 7

The second paragraphs of Sections A.2(ccc) and (ddd) of the Significant Source Modification No. 093-21793-00002 and Significant Permit Modification No. 093-21975-00002 have been changed to read “coal and clean and/or treated wood”.

(ccc) One (1) kiln #1, identified as EU15, constructed in 1959 as a long dry kiln and modified to a one-stage preheater kiln in July 2003, with a heat input rate of 118 million Btu per hour, with a nominal production rate of 38 tons per hour, with PM emissions controlled by one (1) electrostatic precipitator (ESP), identified as KP1, and dioxins/ furans controlled and SO_2 partially controlled by a Water Spray Tower, and exhausting to one (1) stack, identified as S-KP1. Kiln #1 is also permitted to use a blended fuel of coal and pressed paper making waste where the blend has a maximum of 20% pressed paper making waste by heat input.

Kiln #1 is permitted to use a blended fuel of coal and clean and/or treated wood where the blend has a maximum of up to 35% clean **and/**or treated wood by heat input.

(ddd) One (1) kiln #2, identified as EU16, constructed in 1959 as a long dry kiln and modified to a one-stage preheater kiln in July 2003, with a heat input rate of 118 million Btu per hour, with a nominal production rate of 38 tons per hour, with PM emissions controlled by one (1) electrostatic precipitator (ESP), identified as KP2, and dioxins/ furans controlled and SO_2 partially controlled by a Water Spray Tower, and exhausting to one (1) stack, identified as S-KP1. Kiln #2 is also permitted to use a blended fuel of coal and pressed paper making waste where the blend has a maximum of 20% pressed paper making waste by heat input.

Kiln #2 is permitted to use a blended fuel of coal and clean and/or treated wood where the blend has a maximum of up to 35% clean **and/**or treated wood by heat input.

Comment 8

Delete the unilateral changes made to Conditions B.11; B.12; B.20; C.12; C.14; C.17; D.1.4; D.1.5; D.1.7; D.1.8; D.1.9; D.1.10; D.1.11; D.2.10; D.2.12; D.2.13; D.2.14; D.2.15; D.2.16; D.3.9; D.3.11; D.3.12; D.3.13; D.3.14; D.3.15; D.4.9; D.4.14; D.4.15; D.5.9; D.5.11; D.5.12; D.5.13; D.5.14; D.5.15; D.7.7; D.7.10; and D.7.11 of Lehigh’s existing Part 70 Operating Permit. Lehigh’s Treated Wood Application did not include a request to modify these conditions, nor is modification necessary for approval of said application.

Moreover, as stated in Comment #1, Lehigh appealed its Initial Part 70 Operating Permit, its First Significant Permit Modification and its Second Significant Permit Modification to the Indiana Office of Environmental Adjudication (“OEA”) and has agreed to be bound by the Joint Stipulations of Stay of Effectiveness in Cause Nos. 03-A-J-3010 and 04-A-J-3480. Lehigh would like to avoid having to appeal its Significant Permit and Source Modifications Nos. 093-21975-00002 and 093-21793-00002 to clarify the amendments to its existing Part 70 Operating Permit and the effectiveness of the terms and conditions of its existing stay agreements and previously issued permits, and/or to correct errors in the proposed language.

Response 8

In the draft SSM No. 093-21793-00002 and SPM No. 093-21975-00002 that was on Public Notice, Conditions B.11; B.12; B.20; C.12; C.14; C.17; D.1.4; D.1.5; D.1.7; D.1.8; D.1.9; D.1.10; D.1.11; D.2.10; D.2.12; D.2.13; D.2.14; D.2.15; D.2.16; D.3.9; D.3.11; D.3.12; D.3.13; D.3.14; D.3.15; D.4.9; D.4.14; D.4.15; D.5.9; D.5.11; D.5.12; D.5.13; D.5.14; D.5.15; D.7.7; D.7.10; and D.7.11 were modified, as shown in the Technical Support Document for SSM No. 093-21793-00002 and SPM No. 093-21975-00002 (listed under Changes No. 1 through 6). These modifications were made in order to address routinely appealed permit conditions in Title V permits.

IDEM has reconsidered the decision to make these revisions to Conditions B.11; B.12; B.20; C.12; C.14; C.17; D.1.4; D.1.5; D.1.7; D.1.8; D.1.9; D.1.10; D.1.11; D.2.10; D.2.12; D.2.13; D.2.14; D.2.15; D.2.16; D.3.9; D.3.11; D.3.12; D.3.13; D.3.14; D.3.15; D.4.9; D.4.14; D.4.15; D.5.9; D.5.11; D.5.12; D.5.13; D.5.14; D.5.15; D.7.7; D.7.10; and D.7.11 of Lehigh's existing Part 70 Operating Permit No. T093-5990-00002.

Comment 9

Condition B.25 does not accurately incorporate 326 IAC 1-1-6 into Lehigh's Part 70 Operating Permit. Consistent with 326 IAC 1-1-6, please modify Condition B.25 as follows:

B.25 Credible Evidence [326 IAC 1-1-6]

For the purpose of submitting compliance certifications or establishing whether or not the Permittee has violated or is in violation of any emission limitation, standard, or rule in Title 326 of the Indiana Administrative Code, nothing in Title 326 of the Indiana Administrative Code 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 emission limitation, standard, or rule, if the appropriate performance or compliance test procedure had been performed.

Response 9

Condition B.25 has been modified as follows:

B.25 Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314] [326 IAC 1-1-6]

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~~ **any emission limitation, standard, or rule in Title 326 of the Indiana Administrative Code,** nothing in ~~this permit~~ **Title 326 of the Indiana Administrative Code** 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~~ **emission limitation, standard, or rule,** if the appropriate performance or compliance test procedure had been performed.

Comment 10

Delete Condition C.20(c) and C.21(f), (g) and (h) because these modifications do not apply to Lehigh's treated wood modification, do not have to be incorporated at this time, and will nonetheless have to be further modified given the D.C. Circuit Court of Appeals' June 24, 2005 decision in *New York v. EPA*.

Response 10

Conditions C.20(c) and C.21(f), (g) and (h) are NSR reform rules that apply to major sources under 326 IAC 2-2 (Prevention of Significant Deterioration) and 326 IAC 2-3 (Emission Offset). Lehigh Cement Company is a major source under 326 IAC 2-2, and therefore these conditions have not been deleted.

Comment 11

Since the facility description box for Section D.2 and Section D.3 of the proposed permit now appears in two separate boxes on two separate pages of the proposed permit, consistent with the other Facility Description Boxes in Lehigh's existing Part 70 Operating Permit, each box on each page should include the following statement: "(The information describing the processes contained in this facility description box is descriptive information and does not constitute enforceable conditions.)"

Response 11

The facility description boxes in Sections D.2 and D.3 of the permit have been changed as requested.

SECTION D.2

Facility/Emissions Unit Description [326 IAC 2-7-5(15)]

The raw mill facilities/emissions units, as follows:

(1) One (1) raw mill #1, identified as EU11, constructed in 1961, with a nominal rate of 100 tons per hour and including a natural gas-fired burner, identified as EU11A, with a maximum heat input capacity of 20 million British thermal units (MMBtu) per hour, with PM emissions controlled by one (1) baghouse, identified as RMDC3, and exhausting to one (1) stack, identified as S-RMDC3.

(2) - - - - - - -

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

SECTION D.3

The finish mill facilities/emissions units, as follows:

(1) One (1) finish mill #1 with associated feed bin, identified as EU32, constructed in 1959, with a nominal rate of 37 tons per hour, with PM emissions controlled by one (1) baghouse, identified as RMDC5 and RMDC6, and each exhausting to separate stacks, identified as S-RMDC5 and S-RMDC6, respectively.

(2) - - - - - -

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

Comment 12

Condition D.2.11(a)(2) should reference the conveyor transfer points associated with the Kiln #1 and Kiln #2 alternative fuel delivery systems (emphasis added.)

Also, consistent with 40 CFR § 63.1350(a)(4) paragraphs (a)(2)(E) – (F) in Condition D.2.11 should not be included as subsections under: "The plan shall include the following." Instead said paragraphs should be flush with the text of (a).

Additionally, please delete the second paragraph of Condition D.2.11(b) which incorrectly requires daily visible emission observations of the conveyor transfer points associated with the Kiln #1 and Kiln #2 alternative fuel delivery systems (F19 and F20). Pursuant to 40 C.F.R. § 63.1350(a)(4)(i)-(vii) the monitoring requirements for the conveyor system transfer points associated with the Kiln #1 and Kiln #2 alternative fuel delivery systems (F19 and F20) are already set forth in Condition D.2.11(a)(2).

Therefore, as commented on in response to Minor Modification Permit No. 093-21919-00002, please modify Condition D.2.11 as follows:

Response 12

Condition D.2.11 has been changed to read as follows:

D.2.11 NESHAP Monitoring Requirements [40 CFR 63, Subpart LLL]

(a) Pursuant to 40 CFR 63.1350 (Monitoring Requirements), the Permittee shall prepare a written operations and maintenance plan for the material storage building (F03) and each of the raw mills (EU11, EU11A, EU12 and EU12A) 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; and for the conveyor transfer points associated with the Kiln #1 alternative fuel delivery system (F19) and the conveyor transfer points associated with the Kiln #2 alternative fuel delivery system (F20), upon startup of operations.

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.2.3; and

(2) Procedures to be used to periodically monitor the material storage building (F03), and the conveyor transfer points associated with the Kiln #1 and Kiln #2 alternat**iv**e fuel delivery systems (F19 and F20), 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.

(3) Corrective actions to be taken when required by paragraph (b).

~~(A)~~ The requirement to conduct Method 22 visible emissions monitoring under Section D.2.11(a)(2) above, shall not apply to any totally enclosed conveying system transfer point **that is operated and maintained as total enclosures on a continuing basis in accordance with the facility operations and maintenance plan,** regardless of the location of the transfer point. "Totally enclosed conveying system transfer point" shall mean a conveying system transfer point that is enclosed on all sides, top, and bottom. ~~The enclosures for these transfer points shall be operated and maintained as total enclosures on a continuing basis in accordance with the facility operations and maintenance plan~~.

~~(B)~~ If any partially enclosed or unenclosed conveying system transfer point is located in a building, the Permittee shall have the option to conduct a Method 22 visible emissions monitoring test according to the requirements of paragraphs **(a)(2)**(A) through (D) of this section for each such conveying system transfer point located within the building, or for the building itself, according with the paragraph below.

~~(C)~~ If visible emissions from a building are monitored, the requirements of paragraphs **(a)(2)**(A) through (D) of this section apply to the monitoring of the building, and the Permittee shall also test visible emissions from each side, roof and vent of the building for at least 1 minute. The test must be conducted under normal operating conditions.

~~(D)~~ Failure to comply with any provision of the operations and maintenance plan shall be a violation of the standard. The contents of the operations and maintenance plan are not included in this permit and may be modified by the Permittee without modification or amendment of this permit.

(b) Pursuant to 40 CFR 63.1350 (Monitoring Requirements), on and after June 14, 2002, the Permittee shall monitor opacity from the raw mills (EU11, EU11A, EU12 and EU12A) 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 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:

(1) 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).

(2) Within twenty-four (24) hours of the end of the Method 22 test in which visible emissions were observed, conduct a follow-up Method 22 test of each stack from which visible emissions were observed during the previous Method 22 test. If visible emissions are observed during the follow-up Method 22 test from any stack from which visible emissions were observed during the previous Method 22 test, conduct a visual opacity test of each stack from which visible emissions were observed during the follow-up Method 22 test in accordance with 40 CFR Part 60,

Appendix A, Method 9. The duration of the Method 9 test shall be thirty minutes.

Comment 13

Please change "coal and clean or treated wood" in the second paragraphs of Facility Descriptions (1) and (2) in Section D.4 to "coal and clean and/or treated wood."

Response 13

Section D.4 (Facility Descriptions 1 and 2) of the Significant Source Modification and Significant Permit Modification has been changed to read as follows:

Section D.4

Facility/Emissions Unit Description [326 IAC 2-7-5(15)]
The kiln facilities/emissions units, as follows:

(1) One (1) kiln #1, identified as EU15, constructed in 1959 as a long dry kiln and modified to a one-stage preheater kiln in July 2003, with a heat input rate of 118 million Btu per hour, with a nominal production rate of 38 tons per hour, with PM emissions controlled by one (1) electrostatic precipitator (ESP), identified as KP1, and dioxins/furans controlled and SO_2 partially controlled by a Water Spray Tower, and exhausting to one (1) stack, identified as S-KP1. Kiln #1 is also permitted to use a blended fuel of coal and pressed paper making waste where the blend has a maximum of 20% pressed paper making waste by heat input.

Kiln #1 is permitted to use a blended fuel of coal and clean **and**/or treated wood where the blend has a maximum of up to 35% clean and/or treated wood by heat input.

(2) One (1) kiln #2, identified as EU16, constructed in 1959 as a long dry kiln and modified to a one-stage preheater kiln in July 2003, with a heat input rate of 118 million Btu per hour, with a nominal production rate of 38 tons per hour, with PM emissions controlled by one (1) electrostatic precipitator (ESP), identified as KP2, and dioxins/furans controlled and SO_2 partially controlled by a Water Spray Tower, and exhausting to one (1) stack, identified as S-KP1. Kiln #2 is also permitted to use a blended fuel of coal and pressed paper making waste where the blend has a maximum of 20% pressed paper making waste by heat input.

Kiln #2 is permitted to use a blended fuel of coal and clean **and**/or treated wood where the blend has a maximum of up to 35% clean and/or treated wood by heat input.

(3) One (1) kiln #3, identified as EU17, constructed in 1974 as a one-stage preheater kiln, with a heat input rate of 118 million Btu per hour, with a nominal production rate of 43 tons per hour, with PM emissions controlled by one (1) electrostatic precipitator (ESP), identified as KP3, and exhausting to one (1) stack, identified as S-KP2. Kiln #3 is also permitted to use a blended fuel of coal and pressed paper making waste where the blend has a maximum of 20% pressed paper making waste by heat input.

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

Comment 14

The modification to the last sentence of Condition D.4.1, changing "are" to "is" is incorrect. Please do not modify existing Condition D.4.1.

Response 14

The last sentence in Condition D.4.1 of the Significant Source Modification and Significant Permit Modification will be changed to read as follows:

Therefore, the requirements of 326 IAC 2-2 (PSD) ~~is~~ **are** not applicable to the preheater modification.

Comment 15

Consistent with the Minor Permit Modification No. 093-21919-00002 issued on April 17, 2006, Lehigh's permit application and emission calculations, Condition D.4.1.1 should reference "326 IAC 2-2-2(d)(3)" rather than "326 IAC 2-2-2-(d)(4)" because Lehigh utilized the actual-to-projected-actual applicability test to determine if the treated wood project modification to the existing Kilns #1 and #2 would trigger PSD review. Additionally, please change both references to "clean or treated wood" in Condition D.4.1.1 to "clean and/or treated wood."

Response 15

Condition D.4.1.1 of the Significant Source Modification and Significant Permit Modification will be changed to read as follows:

D.4.1.1 Kiln #1 and Kiln #2 Partial Fuel Switch [326 IAC 2-2-2(d)(~~4~~ **3**)]
Pursuant to 326 IAC 2-2-2(d)(~~4~~ **3**), Kiln #1 and Kiln #2 are permitted to burn a blended fuel of coal and clean **and**/or treated wood where the blend has a maximum of up to 35% clean **and**/or treated wood by heat input.

Comment 16

Please modify the Technical Support Document ("TSD") in the Addendum to the TSD to accompany the final permit, consistent with the comments above and the red-lined comments to the public-noticed TSD attached as **Attachment D**.

Response 16

No changes will be made to the TSD because the OAQ prefers that the Technical Support Document reflect the permit that was on public notice. Changes to the permit or technical support material that occur after the public notice period are documented in this Addendum to the Technical Support Document.

(a) The issuance of the Minor Permit Modification No. 093-21919-00002 has been included in the cover pages of the SSM No. 093-21793-00002 and SPM No. 093-21975-00002.
(b) The PM and PM-10 potential to emit of the modified emission units included in SSM No. 093-21793-00002 has not changed. Therefore, the OAQ does not agree to make changes to the table titled "Potential to Emit of Modification" as proposed in Appendix D.
(c) The proposed changes to the table titled "Potential to Emit of Modification After Issuance" have been noted and documented:

Potential to Emit (tpy) *								
	CO	NOx	SO2	VOC	PM	PM10	Pb	HAPs
Potential to Emit before Modification (tpy)	537.53	3,585.69	2,417.28	96.56	91.18	190.41	0.54397	~~17.78~~ **18.32**
Potential to Emit after Modification (tpy)	537.53	3,585.69	2,417.28	96.56	91.18	190.41	0.5439**7** ~~6~~	~~17.78~~ **18.32**
Net Emission Increase (tpy)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NSR Project Evaluation (tpy) *								
Process/facility	PM	PM-10	SO_2	VOC	CO	NO_X	Pb	HAPs
Adjusted Baseline Actual Emissions	66.33	139.76	1,778.93	63.96	395.59	2,638.79	0.01671	13.20
Projected Actual Emissions	55.78	74.53	1,340.61	9.66	486.03	1,482.23	0.02253	17.78
Net Emission	-10.55	-65.23	-438.32	-54.30	90.44	-1,156.56	0.00582	4.58
PSD Threshold Level	25	15	40	40	100	40	0.60	10 Single 25 All

- Emissions provided by the source and based on **adjusted** baseline actual emissions for CO, NOx, SO2, VOC, PM, PM10 for the time period of April 1998 through March 2000. **Adjusted b~~B~~**aseline actual emissions for Pb are based on the time period of August 2003 through July 2005. **Adjusted b~~B~~**aseline actual emissions for HAPs are based on the time period of July 2003 through June 2005 using U.S. EPA AP-42 emission factors for preheater kilns.

(d) The OAQ does not agree to make changes to language related to the Actual to Projected Actual (ATPA) test in 326 IAC 2-2-2. This source is major under 326 IAC 2-2 (PSD), and the ATPA test is an applicable provision for major PSD sources.

(e) The proposed changes to the section titled "Federal Rule Applicability" have been noted. The changes to Condition D.2.11, as documented under Response 6, adequately address this comment.

(f) The proposed deletion of the nonapplicability of 326 IAC 2-4.1-1 (Air Toxics Control) has been noted. No change has been made as a result of this comment.

(g) The proposed change to the applicability of 326 IAC 6-3-2 to the alternative fuel delivery systems F19 and F20 is noted. No change has been made to condition D.2.1(e) which states:
"Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emissions rate from the Kiln #1 alternative fuel delivery system (F19), shall not exceed 19.2 pounds per hour when operating at a process weight rate of 10 tons per hour."

(h) The proposed changes to the TSD section titled "Compliance Requirements" have been noted, however, no changes have been made to the permit as a result of this comment.

Comment 17

Please modify Appendix A – Emission Calculations as set forth in **Attachment E**.

Response 17

The TSD Appendix A – Emissions Calculations have not been changed, since the OAQ prefers that the Technical Support Document reflect the permit that was on public notice. The requested changes in the emissions calculations have been noted, and are documented in this Addendum as follows:

NSR Project Evaluation (tpy) *								
	CO	NOx	SO2	VOC	PM	PM10	Pb	HAPs
Adjusted Baseline Actual Emissions	395.59	2,638.79	1,778.93	63.96	66.33	139.76	0.01671	13.20
Projected Actual Emissions	486.03	1,482.23	1,340.61	9.66	55.78	74.53	0.02253	17.78
Net Emissions	90.44	-1,156.56	-438.32	-54.30	-10.55	-65.23	0.00582	4.58
PSD Threshold Level	100	40	40	40	25	15	0.60	10 single 25 all

* Emissions provided by the source and based on **adjusted** baseline actual emissions for CO, NOx, SO2, VOC, PM, **and** PM10 ~~and HAPs~~ for time period April 1998 through March 2000.
Adjusted b~~B~~aseline actual emissions for Pb is based on time period August 2003 through July 2005.
Adjusted b~~B~~aseline actual emissions for HAPs are based on **the** time period July 2003 through June 2005.

Potential to Emit (tpy) *								
	CO	NOx	SO2	VOC	PM	PM10	Pb	HAPs
Potential to Emit before Modification (tpy)	537.53	3,585.69	2,417.28	96.56	91.18	190.41	0.54397	~~17.78~~ **18.32**
Potential to Emit after Modification (tpy)	537.53	3,585.69	2,417.28	96.56	91.18	190.41	0.5439**7** ~~6~~	~~17.78~~ **18.32**
Net Emission Increase (tpy)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

The PM and PM10 emissions increase from conveying treated wood has been accounted for in the clean wood permit (093-21919-00002). Therefore, IDEM believes there should be no change in PM and PM10 shown between PTE before the Modification and PTE after the Modification.

On April 13, 2006, Lehigh Cement Company submitted comments on the approved Minor Source Modification. Where they are pertinent to the Significant Permit Modification 089-21975-00002 and Significant Source Modification 089-21793-00002 these changes will be made. A summary of the comments and the IDEM response is as follows (bold language has been added and language with a line through it has been deleted):

Comment 18

Condition D.2.9(C) should cite to "40 CFR 63.1349(b)(2)" not to "40 CFR 63.1349(b)(C)."

Response 18

Condition D.2.9(C) will be modified to read:

D.2.9 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11] [40 CFR 63, Subpart LLL]

(c) Within 180 days after start up of each of the alternative fuel delivery systems (F19 and F20), the Permittee shall demonstrate initial compliance with the limit established in Condition D.2.3 by conducting a test in accordance with 40 CFR 63.1349(b)(~~C~~**2**) and Method 9 of 40 CFR Part 60, Appendix A. Testing shall be conducted in accordance with Section C - Performance Testing.

Comment 19

Please correct Condition D.7.11, by labeling the last paragraph "(e)" instead of "(d)".

Response 19

D.7.11 Record Keeping Requirements [326 IAC 20-27] [40 CFR 63.1355]

(a) 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:

(A) All documentation supporting initial notifications and notifications of compliance status under 40 CFR 63.9.

(B) All records of applicability determination, including supporting analyses.

(b) To document compliance with Condition D.7.4, the Permittee shall maintain records of the material input to each process at the calcium sulfate material facilities/emission units. Records shall be complete and sufficient to demonstrate compliance with Condition D.7.4.

(c) To document compliance with Condition D.7.5, the Permittee shall maintain records of any additional inspections prescribed by the Preventive Maintenance Plan.

(d) To document compliance with Condition D.7.10, the Permittee shall maintain records of visible emission notations of the calcium sulfate material facilities/emission units, including the synthetic gypsum hopper (F11), synthetic gypsum weight belt (F15), raw material hopper (F13), raw material weight belt (F16), main belt #1 (F17), CKD storage silo (EU48), main belt #2 (F18), and all transfer points once per shift.

(~~d~~ **e**) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

Comment 20

Consistent with 326 IAC 2-2-8(b)(5)(D) and 50 CFR 51.165(a)(6)(v)(C), Condition C.21(g)(4) should be corrected to state as follows: "Any other information that the Permittee wishes to include in the report."

Response 20

Condition C.21(g)(4) has been modified as follows:

(4) ~~Any other information that the Permittee deems fit to include in this report,~~
Any other information that the Permittee wishes to include in the report.

Comment 21

The references to the “alternate fuel delivery systems” in Conditions D.2.2 and D.2.3 should be corrected to “alternative fuel delivery systems.”

Response 21

Conditions D.2.2 and D.2.3 have been modified as follows:

D.2.2 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 material storage building (F03), the raw mills (EU11, EU11A, EU12 and EU12A), and each conveying system transfer point associated with the Kiln #1 and Kiln #2 ~~alternate~~ **alternative** fuel delivery systems (F19) and (F20) described in this section except when otherwise specified in 40 CFR Part 63, Subpart LLL.

D.2.3 NESHAP Emissions Limitation [40 CFR 63, Subpart LLL]

Pursuant to 40 CFR 63.1348 (Emissions Standards and Operating Limits), the visible emissions from the material storage building (F03), each of the raw mills (EU11, EU11A, EU12 and EU12A), and each conveying system transfer point associated with the Kiln #1 and Kiln #2 ~~alternate~~ **alternative** fuel delivery systems (F19) and (F20) shall each not exceed ten percent (10%) opacity.

Comment 22

Please correct the typographical error in C.20(c)(1)(C)(iii) (an apostrophe) and in C.20(c)(3), (“toms per year”).

Response 22

The typographical errors have been corrected.

Other Changes

IDEM’s address in Conditions B.10(a), B.11(a), B.12(b)(5), B.15(b), B.17(a), B.18(b), B.20(a)(4), B.23(b), C.8(d), C.9(a), C.11, C.19(b), C.21(b), C.22(f), and on the Emergency Occurrence Report form has been changed to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue,
Indianapolis, Indiana 46204-2251

Indiana Department of Environmental Management
Office of Air Quality

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

Source Background and Description

Source Name:	**Lehigh Cement Company**
Source Location:	**121 North First Street, P.O. Box 97, Mitchell, Indiana 47446**
County:	**Lawrence**
SIC Code:	**3241**
Operation Permit No.:	**T093-5990-00002**
Operation Permit Issuance Date:	**December 30, 2002**
Significant Source Modification No.:	**093-21793-00002**
Significant Permit Modification No.:	**093-21975-00002**
Permit Reviewer:	**Walter Habeeb**

History

On September 13, 2005, Lehigh Cement Company submitted an application to the OAQ requesting to add the ability to burn treated wood in Kiln # 1 and Kiln # 2 and to use an existing alternate fuel storage and conveyor delivery system for Kiln #1(F19) and an alternate fuel storage and conveyor delivery system for Kiln #2 (F20). Lehigh Cement Company was issued a Part 70 permit on December 30, 2002. The source has since received the following approvals.

a) Second Administrative Amendment 093-21136-00002, issued April 26, 2005.

b) First Administrative Amendment 093-20912-00002, issued April 8, 2005.

c) First Exemption 093-20115-00002, issued March 11, 2005.

d) Second Significant Source Modification 093-19158-00002, issued November 5, 2004.

e) Second Significant Permit Modification 093-18649-00002, issued November 5, 2004.

f) First Significant Permit Modification 093-16851-00002, issued July 11, 2003.

g) First Significant Source Modification 093-15822-00002, issued June 24, 2003.

Enforcement Issue

There are no pending enforcement actions related to this modification.

Recommendation

The staff recommends to the Commissioner that the Part 70 Significant Source Modification and Significant Permit Modification be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

Applications for the purposes of this review were received on September 13, 2005.

Emission Calculations

See Appendix A of this document for detailed emissions calculations.

Potential To Emit of Modification

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as "the maximum capacity of a stationary source to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA."

This table reflects the PTE of Kiln #1 and Kiln #2 alternative fuel delivery systems before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Pollutant	Potential To Emit (tons/yr)
PM	0.00
PM-10	0.00
SO_2	0.00
VOC	0.00
CO	0.00
NO_x	0.00
HAPs	0.00

Justification for Modification

The Part 70 Operating permit is being modified through a Part 70 Significant Source Modification and a Significant Permit Modification. Lehigh is requesting that the modification be processed as a significant modification, even though the attached estimated emissions indicate that the treated wood modification falls below the 10 tons per year of single HAP threshold and 25 tons per year of any combination HAPs threshold because there are no U.S. EPA AP-42 emission factors for kilns while utilizing a blended fuel of coal and treated wood. The estimated potential to emit HAP emissions from Kilns #1 and #2 are based on U.S. EPA AP-42 HAP emission factors for preheater kilns while utilizing 100% coal.

County Attainment Status

The source is located in Lawrence County.

Pollutant	Status
PM_{10}	Attainment
$PM_{2.5}$	Attainment
SO_2	Attainment
NOx	Attainment
1 Hour Ozone	Attainment
8 Hour Ozone	Attainment
CO	Attainment
Lead	Attainment

(a) Volatile organic compounds (VOC) and oxides of nitrogen (NOx) are precursors for the formation of ozone. Therefore, VOC and NO_X emissions are considered when evaluating the rule applicability relating to the ozone standards. Lawrence 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) Lawrence County has been classified as attainment or unclassifiable for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(c) Fugitive Emissions
Since this type of operation is one of the 28 listed source categories under 326 IAC 2-2, the fugitive PM emissions are counted toward determination of PSD and Emission Offset applicability.

Source Status

Existing Source PSD or Emission Offset Definition (emissions after controls, based upon 8760 hours of operation per year at rated capacity and/or as otherwise limited):

Pollutant	Emissions (tons/year)
PM	greater than 100
PM-10	greater than 100
SO_2	greater than 100
VOC	less than 100
CO	greater than 100
NOx	greater than 100

(a) This existing source is a major stationary source under PSD (326 IAC 2-2), because an attainment regulated pollutant is emitted at a rate of 100 tons per year or more, and it is one of the 28 listed source categories.

(b) These emissions are based upon the Title V TSD calculations.

Potential to Emit of Modification After Issuance

The table below summarizes the potential to emit, reflecting all limits, of the significant emission units after controls. The control equipment is considered federally enforceable only after issuance of this Part 70 source modification.

Potential to Emit (TPY) *								
Process/facility	PM	PM-10	SO_2	VOC	CO	NO_X	Pb	HAPs
Potential to Emit before Modification	91.18	190.41	2,417.28	96.56	537.53	3,585.69	0.54397	18.32
Potential to Emit after Modification	91.18	190.41	2,417.28	96.56	537.53	3,585.69	0.54396	18.32
Net Emission Increase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

- Emissions provided by the source. Before modification emissions based on Part 70 Operating Permit limits. After modification (alternative fuel delivery system) emissions based on AP-42 Section 13.2.4.

NSR Project Evaluation (tpy) *								
Process/facility	PM	PM-10	SO_2	VOC	CO	NO_X	Pb	HAPs
Baseline Actual Emissions	66.33	139.76	1,778.93	63.96	395.59	2,638.79	0.01671	13.20
Projected Actual Emissions	55.78	74.53	1,340.61	9.66	486.03	1,482.23	0.02253	17.78
Net Emission	-10.55	-65.23	-438.32	-54.30	90.44	-1,156.56	0.00582	4.58
PSD Threshold Level	25	15	40	40	100	40	0.60	10 Single 25 All

- Emissions provided by the source and based on baseline actual emissions for CO, NOx, SO2, VOC, PM, PM10 for the time period of April 1998 through March 2000. Baseline actual emissions for Pb are based on the time period of August 2003 through July 2005. Baseline actual emissions for HAPs are based on the time period of July 2003 through June 2005 using U.S. EPA AP-42 emission factors for preheater kilns.

The Permittee has provided information as part of the application for this approval that based on Actual to Projected Actual test in 326 IAC 2-2-2 this modification at a major stationary source will not be major for Prevention of Significant Deterioration under 326 IAC 2-2-1. IDEM, OAQ has not reviewed this information and will not be making any determination in this regard as part of this approval. However, in a November 29, 2005 letter to the IDEM, Lehigh Cement Company requested this NSR project be processed as a significant source modification. IDEM will process this modification as a significant permit modification and a significant source modification.

Federal Rule Applicability

(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 material storage hopper, and each conveyor transfer point associated with the Kiln #1 and Kiln #2 alternative fuel delivery systems (F19 and F20) described in this section except when otherwise specified in 40 CFR Part 63, Subpart LLL.

(b) Pursuant to 40 CFR 63.1340 (b)(6 & 7) Subpart LLL, (Applicability and Designation of Affected Sources), each material transfer point is subject to the rules of this section.

(c) Pursuant to 40 CFR 63.1348 Subpart LLL, (Emissions Standards and Operating Limits), the visible emissions from each conveyor transfer point associated with the Kiln #1 and Kiln #2 alternative fuel delivery systems (F19 and F20) shall each not exceed ten percent (10%) opacity.

State Rule Applicability - Individual Facilities

326 IAC 2-4.1-1 (New Source Toxic Control)

The potential to emit HAPs from this modification is less than ten (10) tons per year for a single HAP and less than twenty-five (25) tons per year for any combination of HAP's. Therefore, the requirements of 326 IAC 2-4.1-1(New Source Toxic Control) are not applicable to this modification.

326 IAC 2-6 (Emission Reporting)

This source is subject to 326 IAC 2-6 (Emission Reporting), because it has the potential to emit more than one hundred (100) tons per year of VOC. Pursuant to this rule, the owner/operator of the source must annually submit an emission statement for the source. The annual statement must be received by July 1 of each year and contain the minimum requirement as specified in 326 IAC 2-6-4. The submittal should cover the period defined in 326 IAC 2-6-2(8) (Emission Statement Operating Year).

326 IAC 4-1 (Open Burning)

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.

326 IAC 5-1 (Opacity Limitations)

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), opacity shall meet the following, unless otherwise stated in the 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.

326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)

Pursuant to 326 IAC 6-3-2 (Particulate), the particulate matter (PM) from the material storage hopper, and each conveyor transfer point associated with the Kiln #1 and Kiln #2 alternative fuel delivery systems (F19 and F20), shall be limited by the following:

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

$E = 4.10\ P^{0.67}$ where E = rate of emission in pounds per hour and
P = process weight rate in tons per hour

Compliance Requirements

Permits issued under 326 IAC 2-7 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-7-5. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in Section D of the permit are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance

Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

Pursuant to 40 CFR 63.1350 (Monitoring Requirements), the Permittee shall prepare a written operations and maintenance plan for the material storage hoppers and for the conveyor transfer points associated with the Kiln #1 alternate fuel delivery system (F19) and the conveyor transfer points associated with the Kiln #2 alternate fuel delivery system (F20), upon startup of operations.

Part 70 Permit Changes

(1) Section A.2 of the Part 70 Operating Permit 093-5990-00002, issued on December 30, 2002 has been revised to include the ability to burn treated wood in Kiln #1 and Kiln #2 and the addition of treated wood to the alternative fuel delivery systems (any changes are shown in **bold** or ~~strikeout~~ fonts for emphasis):

The raw material handling and storage facilities/emissions units, as follows:

(p) A conveying system to transport raw material to storage, identified as EU09, constructed in 1960, with a nominal rate of 200 tons per hour, with PM emissions controlled by one (1) baghouse, identified as RMDC1, and exhausting to one (1) stack, identified as S-RMDC1.

(q) One (1) shale crusher, identified as EU10, constructed in 1961, with a nominal rate of 200 tons per hour, with PM emissions controlled by one (1) baghouse, identified as RMDC2, and exhausting to one (1) stack, identified as S-RMDC2.

(r) One (1) material storage building, identified as F03, constructed in 1959-1960, with fugitive emissions from various conveyors and storage piles controlled by partial enclosure and exhausting directly to the atmosphere.

(s) One (1) coal unloading building, identified as F08, constructed in 1960, with particulate matter emissions controlled by partial enclosure and exhausting directly to the atmosphere.

(t) One (1) coal pile, identified as F04, storage commencing prior to 1971, with particulate matter emissions uncontrolled, and exhausting directly to the atmosphere.

(u) Raw material stockpiles collectively, identified as F09, storage commencing prior to 1971, used for temporary storage of various feed materials, including gypsum, foundry sand, mill scale, and slag, with particulate matter emissions uncontrolled, and exhausting to the atmosphere.

Kiln #1 and Kiln #2 Alternative Fuel Delivery Systems as follows:

(u.1) One (1) alternative fuel delivery system to convey clean **or treated** wood fuel to Kiln #1, identified as F-19, consisting of a partially enclosed hopper exhausting to the atmosphere and a series of totally enclosed conveyors, with a nominal throughput of 87,600 tons per year.

(u.2) One (1) alternative fuel delivery system to convey clean **or treated** wood fuel to Kiln #2, identified as F-20, consisting of a partially enclosed hopper exhausting to the atmosphere and a series of totally enclosed conveyors, with a nominal throughput of 87,600 tons per year.

The kiln facilities/emissions units, as follows:

(ccc) One (1) kiln #1, identified as EU15, constructed in 1959 as a long dry kiln and modified to a one-stage preheater kiln in July 2003, with a heat input rate of 118 million Btu per hour, with a nominal production rate of 38 tons per hour, with PM emissions controlled by one (1) electrostatic precipitator (ESP), identified as KP1, and dioxins/ furans controlled and SO_2 partially controlled by a Water Spray Tower, and exhausting to one (1) stack, identified as S-KP1. Kiln #1 is also permitted to use a blended fuel of coal and pressed paper making waste where the blend has a maximum of 20% pressed paper making waste by heat input.

Kiln #1 is permitted to use a blended fuel of coal and clean **or treated** wood where the blend has a maximum of up to 35% clean **and/or treated** wood by heat input.

(ddd) One (1) kiln #2, identified as EU16, constructed in 1959 as a long dry kiln and modified to a one-stage preheater kiln in July 2003, with a heat input rate of 118 million Btu per hour, with a nominal production rate of 38 tons per hour, with PM emissions controlled by one (1) electrostatic precipitator (ESP), identified as KP2, and dioxins/ furans controlled and SO_2 partially controlled by a Water Spray Tower, and exhausting to one (1) stack, identified as S-KP1. Kiln #2 is also permitted to use a blended fuel of coal and pressed paper making waste where the blend has a maximum of 20% pressed paper making waste by heat input.

Kiln #2 is permitted to use a blended fuel of coal and clean **or treated** wood where the blend has a maximum of up to 35% clean **and/or treated** wood by heat input.

(eee) One (1) kiln #3, identified as EU17, constructed in 1974 as a one-stage preheater kiln, with a heat input rate of 118 million Btu per hour, with a nominal production rate of 43 tons per hour, with PM emissions controlled by one (1) electrostatic precipitator (ESP), identified as KP3, and exhausting to one (1) stack, identified as S-KP2. Kiln #3 is also permitted to use a blended fuel of coal and pressed paper making waste where the blend has a maximum of 20% pressed paper making waste by heat input.

(2) Section D.2 of the Part 70 Operating Permit 093-5990-00002, issued on December 30, 2002 has been revised to incorporate the Kiln #1 and Kiln #2 alternative fuel delivery systems (any changes are shown in **bold** or ~~strikeout~~ fonts for emphasis):

SECTION D.2 FACILITY/EMISSION UNIT OPERATION CONDITIONS

Facility/Emissions Unit Description [326 IAC 2-7-5(15)]

The raw material handling and storage facilities/emissions units, as follows:

(1) A conveying system to transport raw material to storage, identified as EU09, constructed in 1960, with a nominal rate of 200 tons per hour, with PM emissions controlled by one (1) baghouse, identified as RMDC1 and exhausting to one (1) stack, identified as S-RMDC1.

(2) One (1) shale crusher, identified as EU10, constructed in 1961, with a nominal rate of 200 tons per hour, with PM emissions controlled by one (1) baghouse, identified as RMDC2, and exhausting to one (1) stack, identified as S-RMDC2.

(3) One (1) material storage building, identified as F03, constructed in 1959-1960, with fugitive emissions from various conveyors and storage piles controlled by partial enclosure and exhausting directly to the atmosphere.

(4) One (1) coal unloading building, identified as F08, constructed in 1960, with particulate matter emissions controlled by partial enclosure and exhausting directly to the atmosphere.

(5) One (1) coal pile, identified as F04, constructed prior to 1971, with particulate matter emissions uncontrolled, and exhausting directly to the atmosphere.

(6) Raw material stockpiles collectively, identified as F09, storage commencing prior to 1971, used for temporary storage of various feed materials, including gypsum, foundry sand, mill scale, and slag, with particulate matter emissions uncontrolled, and exhausting to the atmosphere.

Kiln #1 and Kiln #2 Alternative Fuel Delivery Systems, as follows:

(1) One (1) alternative fuel delivery system to convey clean **or treated** wood fuel to Kiln #1, identified as F-19, consisting of a partially enclosed hopper exhausting to the atmosphere and a series of totally enclosed conveyors, with a nominal throughput of 87,600 tons per year.

(2) One (1) alternative fuel delivery system to convey clean **or treated** wood fuel to Kiln #2, identified as F-20, consisting of a partially enclosed hopper exhausting to the atmosphere and a series of totally enclosed conveyors, with a nominal throughput of 87,600 tons per year.

The raw mill facilities/emissions units, as follows:

(1) One (1) raw mill #1, identified as EU11, constructed in 1961, with a nominal rate of 100 tons per hour and including a natural gas-fired burner, identified as EU11A, with a maximum heat input capacity of 20 million British thermal units (MMBtu) per hour, with PM emissions controlled by one (1) baghouse, identified as RMDC3, and exhausting to one (1) stack, identified as S-RMDC3.

(2) One (1) raw mill #2, identified as EU12, constructed in 1961, with a nominal rate of 100 tons per hour and including a natural gas-fired burner, identified as EU12A, with a maximum heat input capacity of 20 million British thermal units (MMBtu) per hour, with PM emissions controlled by one (1) baghouse, identified as RMDC4, and exhausting to one (1) stack, identified

as S-RMDC4.

Insignificant Activities, as follows:

(1) Three (3) coal mills, with nominal rates of 5, 6, and 6 tons per hour, with particulate matter emissions controlled by total enclosure, and exhausting to the kilns.

(2) One coal feeder conveyor and one coal unloading conveyor, with nominal rates of 250 tons per hour and 260 tons per hour, respectively, constructed prior to August 17, 1971, with particulate matter emissions controlled by total enclosure.

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

(3) Section D.4 of the Part 70 Operating Permit 093-5990-00002, issued on December 30, 2002 has been revised to incorporate the Kiln #1 and Kiln #2 alternate fuel delivery systems (any changes are shown in **bold** or ~~strikeout~~ fonts for emphasis):

SECTION D.4 FACILITY/EMISSION UNIT OPERATION CONDITIONS

Facility/Emissions Unit Description [326 IAC 2-7-5(15)]

The kiln facilities/emissions units, as follows:

(1) One (1) kiln #1, identified as EU15, constructed in 1959 as a long dry kiln and modified to a one-stage preheater kiln in July 2003, with a heat input rate of 118 million Btu per hour, with a nominal production rate of 38 tons per hour, with PM emissions controlled by one (1) electrostatic precipitator (ESP), identified as KP1, and dioxins/furans controlled and SO_2 partially controlled by a Water Spray Tower, and exhausting to one (1) stack, identified as S-KP1. Kiln #1 is also permitted to use a blended fuel of coal and pressed paper making waste where the blend has a maximum of 20% pressed paper making waste by heat input.

Kiln #1 is permitted to use a blended fuel of coal and clean **or treated** wood where the blend has a maximum of up to 35% clean **and/or treated** wood by heat input.

(2) One (1) kiln #2, identified as EU16, constructed in 1959 as a long dry kiln and modified to a one-stage preheater kiln in July 2003, with a heat input rate of 118 million Btu per hour, with a nominal production rate of 38 tons per hour, with PM emissions controlled by one (1) electrostatic precipitator (ESP), identified as KP2, and dioxins/furans controlled and SO_2 partially controlled by a Water Spray Tower, and exhausting to one (1) stack, identified as S-KP1. Kiln #2 is also permitted to use a blended fuel of coal and pressed paper making waste where the blend has a maximum of 20% pressed paper making waste by heat input.

Kiln #2 is permitted to use a blended fuel of coal and clean **or treated** wood where the blend has a maximum of up to 35% clean **and/or treated** wood by heat input.

(3) One (1) kiln #3, identified as EU17, constructed in 1974 as a one-stage preheater kiln, with a heat input rate of 118 million Btu per hour, with a nominal production rate of 43 tons per hour, with PM emissions controlled by one (1) electrostatic precipitator (ESP), identified as KP3, and exhausting to one (1) stack, identified as S-KP2. Kiln #3 is also permitted to use a blended fuel of coal and pressed paper making waste where the blend has a maximum of 20% pressed

paper making waste by heat input.

(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.4.1.1 Kiln #1 and Kiln #2 Partial Fuel Switch, Applicability [326 IAC 2-2-2(d)]

Pursuant to 326 IAC 2-2-2(d), Kiln #1 and Kiln #2 are permitted to burn a blended fuel of coal and clean **or treated** wood where the blend has a maximum of up to 35% clean **and/or treated** wood by heat input.

The changes listed below have been made to the Part 70 Operation Permit No. 093-5990-00002. Deleted language appears as ~~strikethroughs~~ and new language appears in **bold**:

Change No. 1:

IDEM has determined that the Permittee is not required to keep records of all preventive maintenance. However, where the Permittee seeks to demonstrate that an emergency has occurred, the Permittee must provide, upon request, records of preventive maintenance in order to establish that the lack of proper maintenance did not cause or contribute to the deviation. Therefore, IDEM has deleted paragraph (b) of Section B – Preventive Maintenance, and has amended the Section B – Emergency Provisions condition as follows:

B.11 Preventive Maintenance Plan [326 IAC 2-7-5(1),(3) and (13)] [326 IAC 2-7-6(1) and (6)] [326 IAC 1-6-3]

(a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMP) within ninety (90) days after issuance of this permit, including the following information on each facility~~/emissions unit~~:

(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;

(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 PMP cannot be prepared and maintained within 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 Branch, Office of Air Quality~~
~~100 North Senate Avenue,~~
~~Indianapolis, Indiana 46204~~

~~The PMP and the PMP extension notification do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34)~~.

(b) The Permittee shall implement the PMPs~~, including any required record keeping~~, as necessary to ensure that failure to implement a PMP does not cause or contribute to an exceedance of any limitation on emissions or potential to emit.

(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 or potential to emit. The PMP**s** do~~es~~ not require the certification by the "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.12 Emergency Provisions [326 IAC 2-7-16]

(a), (b) and (c) remain the same

(d) This emergency provision supersedes ~~the malfunction rule,~~ 326 IAC 1-6 **(Malfunctions)**. ~~(except the requirement for a PMP in 326 IAC 1-6-3), for sources subject to 326 IAC 2-7 after the effective date of 326 IAC 2-7~~. This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.

(e) **The Permittee 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)(9) be revised in response to an emergency.

(f) Failure to notify IDEM, OAQ, by telephone, facsimile, or other agreed upon method, 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~~/emissions units~~ during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.

(h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report.

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

(a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b), (c), or (e), 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) Any preconstruction approval required by 326 IAC 2-7-10.5 has been obtained;

(3) The changes do not result in emissions which exceed the emissions allowable under 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
Permits Branch, Office of Air Quality
100 North Senate Avenue~~, P.O. Box 6015~~
Indianapolis, Indiana ~~46206-6015~~ **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~~, on a rolling five (5) year basis,~~ all such changes and emission~~s~~ ~~trading~~ **trades** that are subject to 326 IAC 2-7-20(b), (c), or (e)**.** ~~and makes~~ **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), (c)(1), and (e)(2).

(b) remains the same

(c) Emission Trades [326 IAC 2-7-20(c)]
The Permittee may trade **emissions** increases and decreases ~~in emissions in~~ **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) remains the same

Change No. 2:

Indiana was required to incorporate credible evidence provisions into state rules consistent with the SIP call published by U.S. EPA in 1997 (62 FR 8314). Indiana has incorporated the credible evidence provision in 326 IAC 1-1-6. This rule is effective March 16, 2005; therefore, the condition reflecting this rule will be incorporated into your permit as follows:

B.25 Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314] [326 IAC 1-16]

~~Notwithstanding the conditions of this permit that state specific methods that may be used to demonstrate compliance with, or a violation of, applicable requirements, any person (including the~~

~~Permittee) may also use other credible evidence to demonstrate compliance with, or a violation of, any term or condition of this permit.~~

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 procedure had been performed.

Change No.3:
COM Downtime

Upon further review, IDEM has determined that no additional monitoring will be required during COM downtime, until the COM has been down for twenty-four (24) hours. This allows the Permittee to focus on the task of repairing the COM during the first twenty-four (24) hour period. After twenty-four (24) hours of COM downtime, the Permittee will be required to conduct Method 9 readings for thirty (30) minutes. Once Method 9 readings are required to be performed, the readings should be performed twice per day at least 4 or 6 hours apart, rather than once every four (4) hours, until a COMS is back in service.

C.12 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. For a boiler, the COM**S** shall be in operation at all times that the induced draft fan is in operation.

(b) All ~~continuous opacity monitoring systems~~ **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 ~~continuous opacity monitoring system~~ **COMS** occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem.

~~(A)~~(d) Whenever a ~~continuous opacity monitor (COM)~~ **COMS** is malfunctioning or ~~will be~~ **is** down for ~~calibration,~~ maintenance or repairs for a period of ~~one (1) hour~~ **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,** ~~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 **a** certified opacity reader~~(s)~~, who may be **an** employee~~s~~ of the Permittee or **an** independent contractor~~s~~, to self-monitor the emissions from the emission unit stack.

~~(A)~~ **(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.

~~(B)~~ **(2)** 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~~ **twice per day** during daylight operations, **with at least four (4) hours between each set of readings**, until ~~such time that~~ a COM**S** is ~~in operation~~ **online**.

~~(C)~~ **(3)** Method 9 readings may be discontinued once a COM**S** is online.

~~(D)~~ **(4)** Any opacity exceedances determined by Method 9 readings shall be reported with the Quarterly Opacity Exceedances Reports.

~~(E) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports. 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 - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.~~

(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, 40 CFR 63, Subpart LLL.

Change No. 4:

IDEM realizes that these specifications can only be practically applied to analog units, and has therefore clarified the condition to state that the condition only applies to analog units. Upon further review, IDEM has also determined that the accuracy of the instruments is not nearly as important as whether the instrument has a range that is appropriate for the normal expected reading of the parameter. Therefore, the accuracy requirements have been removed from the condition.

C.14 ~~Pressure Gauge and Other~~ Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

(a) ~~Whenever a condition in this permit requires the measurement of pressure drop across any part of the unit or its control device, the gauge employed~~ **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 ~~normal~~ **maximum** reading **for the normal range** shall be no less than twenty

percent (20%) of full scale ~~and be accurate within plus or minus two percent (2%) of full scale reading~~.

~~(b) Whenever a condition in this permit requires the measurement of a (temperature or flow rate), the instrument employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent (2%) of full scale reading.~~

~~(c) The Preventive Maintenance Plan for the pH meter shall include calibration using known standards. The frequency of calibration shall be adjusted such that the typical error found at calibration is less than one pH point.~~

(~~d~~ **b**) The Permittee may request **that** the IDEM, OAQ approve the use of ~~a pressure gauge or other~~ **an** instrument that does not meet the above specifications provided the Permittee can demonstrate **that** an alternative ~~pressure gauge or other~~ instrument specification will adequately ensure compliance with permit conditions requiring the measurement of ~~pressure drop or other~~ the parameters.

Change No. 5:

IDEM has reconsidered the requirement to develop and follow a Compliance Response Plan. The Permittee will still be required to take reasonable response steps when a compliance monitoring parameter is determined to be out of range or abnormal. Replacing the requirement to develop and follow a Compliance Response Plan with a requirement to take reasonable response steps will ensure that the control equipment is returned to proper operation as soon as practicable, while still allowing the Permittee the flexibility to respond to situations that were not anticipated. The Section D conditions that refer to this condition have been revised to reflect the new condition title, and the following changes have been made to the Section C condition:

C.17 ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances** [326 IAC 2-7-5] [326 IAC 2-7-6]

~~(a) The Permittee is required to prepare a Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. If a Permittee is required to have an Operation, Maintenance and Monitoring (OMM) Plan (or Parametric Monitoring Plan and Start-up, Shutdown, and Malfunction (SSM) Plan) under 40 CFR 60/63, such plans shall be deemed to satisfy the requirements for a CRP for those compliance monitoring conditions. A CRP shall be submitted to IDEM, OAQ upon request. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee, supplemented from time to time by the Permittee, maintained on site, and comprised of:~~

~~(1) Reasonable response steps that may be implemented in the event that a response step is needed pursuant to the requirements of Section D of this permit; and an expected timeframe for taking reasonable response steps.~~

~~(2) If, at any time, the Permittee takes reasonable response steps that are not set forth in the Permittee's current Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) Plan (or Parametric Monitoring Plan and Start-up, Shutdown, and Malfunction (SSM) Plan) and the Permittee documents such response in accordance with subsection (e) below, the Permittee shall amend its Compliance Response Plan or Operation, Maintenance and Monitoring~~

~~(OMM) Plan (or Parametric Monitoring Plan and Start-up, Shutdown, and Malfunction (SSM) Plan) to include such response steps taken.~~

~~The OMM Plan (or Parametric Monitoring and SSM Plan) shall be submitted within the time frames specified by the applicable 40 CFR60/63 requirements.~~

~~(b) For each compliance monitoring condition of this permit, reasonable response steps shall be taken when indicated by the provisions of that compliance monitoring condition as follows:~~

~~(1) Reasonable response steps shall be taken as set forth in the Permittee's current Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) Plan (or Parametric Monitoring Plan and Start-up, Shutdown, and Malfunction (SSM) Plan); or~~

~~(2) If none of the reasonable response steps listed in the Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) Plan (or Parametric Monitoring Plan and Start-up, Shutdown, and Malfunction (SSM) Plan) is applicable or responsive to the excursion, the Permittee shall devise and implement additional response steps as expeditiously as practical. Taking such additional response steps shall not be considered a deviation from this permit so long as the Permittee documents such response steps in accordance with this condition.~~

~~(3) If the Permittee determines that additional response steps would necessitate that the emissions unit or control device be shut down, and it will be ten (10) days or more until the unit or device will be shut down, then the Permittee shall promptly notify the IDEM, OAQ of the expected date of the shut down. The notification shall also include the status of the applicable compliance monitoring parameter with respect to normal, and the results of the response actions taken up to the time of notification.~~

~~(4) Failure to take reasonable response steps shall be considered a deviation from the permit.~~

~~(c) The Permittee is not required to take any further response steps for any of the following reasons:~~

~~(1) A false reading occurs due to the malfunction of the monitoring equipment and prompt action was taken to correct the monitoring equipment.~~

~~(2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for a minor permit modification to the permit, and such request has not been denied.~~

~~(3) An automatic measurement was taken when the process was not operating.~~

~~(4) The process has already returned or is returning to operating within "normal" parameters and no response steps are required.~~

~~(d) When implementing reasonable steps in response to a compliance monitoring condition, if the Permittee determines that an exceedance of an emission limitation has occurred, the~~

~~Permittee shall report such deviations pursuant to Section B-Deviations from Permit Requirements and Conditions.~~

~~(e) The Permittee shall record all instances when, in accordance with Section D, response steps are taken. In the event of an emergency, the provisions of 326 IAC 2-7-16 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.~~

~~(f) Except as otherwise provided by a rule or provided specifically in Section D, all monitoring as required in Section D shall be performed when the emission unit is operating, except for time necessary to perform quality assurance and maintenance activities.~~

If required by a specific condition in Section D of this permit:

(a) Upon detecting an excursion or exceedance, the Permittee shall 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 emissions.

(b) 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). Corrective actions may include, but are not limited to, the following:

(1) initial inspection and evaluation;

(2) recording that operations returned to normal without operator action (such as through response by a computerized distribution control system); or

(3) 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.

(c) 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:

(1) monitoring results;

(2) review of operation and maintenance procedures and records;

(3) inspection of the control device, associated capture system, and the process.

(d) Failure to take reasonable response steps shall be considered a deviation from the permit.

(e) The Permittee shall maintain the following records:

(1) monitoring data;

(2) monitor performance data, if applicable; and

(3) corrective actions taken.

(f) For purposes of this Condition:

(1) "Exceedance" shall mean a condition that is detected by monitoring that provides data in terms of an emission limitation or standard and that indicates that emissions are, or opacity is, greater that the applicable emission limitation or standard (or less than the applicable standard in the case of a percent reduction requirement), consistent with any averaging period specified for averaging the results of the monitoring.

(2) "Excursion" shall mean a departure from an indicator range established for monitoring under Section D of this permit, consistent with any averaging period specified for averaging the results of the monitoring.

Change No. 6:
Section D Updates

D.1.4 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility **and its** ~~the~~ control devices ~~listed in this section~~.

D.1.5 Particulate Control **326 IAC 2-7-6(6)**

(a) Pursuant to minor source modification 093-11313 issued November 9, 1999, for the CKD mixer (EU24B), and in order for all units to comply with Conditions D.1.1 and D.1.3, except as otherwise provided by statute, rule or this permit, each baghouse listed in this section for particulate control shall be in operation **and control emissions** at all times when its associated facility/emissions unit is in operation.

(b) In the event that bag failure is observed in a multi-compartment baghouse, 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.1.7 Visible Emissions Notations

Visible emission notations of all the baghouse stack exhausts shall be performed once per ~~shift~~ **day** during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.

(a) 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.

(b) 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.

(c) 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.

(d) ~~The Compliance Response Plan for these units shall contain troubleshooting contingency and response steps for when an~~ **If** abnormal emission**s** ~~is~~ **are** observed ~~or when visible emissions are observed crossing the property line~~, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances ~~or when visible emissions are observed crossing the property line~~. Failure to take response steps in accordance with Section C - ~~Compliance Response Plan- Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances** shall be considered a ~~violation~~ **deviation** of this permit.

D.1.8 Parametric Monitoring

The Permittee shall record the ~~total static~~ pressure drop across each baghouse listed in this section, at least once per ~~shift~~ **day** when the associated facility/emissions unit is in operation. When for any one reading, the pressure drop across a baghouse is outside the normal range of 1.0 and 8.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C – ~~Compliance Response Plan-Preparation, Implementation Records, and Reports~~ **Response to Excursions or Exceedances**. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - ~~Compliance Response Plan-Preparation, Implementation Records, and Reports~~ **Response to Excursions or Exceedances**, shall be considered a violation of this permit.

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

Change No. 7

Upon further review, IDEM has determined that it is the Permittee's responsibility to include routine control device inspection requirements in the applicable preventive maintenance plan. Since the Permittee is in the best position to determine the appropriate frequency of control device inspections and the details regarding which components of the control device should be inspected, the conditions requiring control device inspections have been removed from the permit. In addition, the requirement to keep records of the inspections has been removed.

~~D.1.9 Baghouse Inspections~~

~~An inspection shall be performed each calendar quarter of all bags controlling the processes listed in this section when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting to the indoors. Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced~~.

D.1.~~10~~ **9** Broken or Failed Bag Detection

In the event that bag failure has been observed.

~~(a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if there are no visible emissions from the emission unit, control device, or stack, or if the event qualifies as an emergency and the Permittee satisfies the emergency provisions of this permit (Section B- Emergency Provisions). Within eight (8) business hours of the~~

~~determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit~~.

~~(b)~~ **(a)** For **a** single compartment baghouse~~s~~ **controlling emissions from a process operated continuously**, ~~if failure is indicated by a significant drop in the baghouse's pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if bag failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, dust traces, or triboflows, then~~ failed units and the associated process ~~will~~ **shall** be shut down immediately until the failed units have 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~~s~~ **controlling emissions from a batch process,** ~~if failure is indicated by a significant drop in the baghouse's pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if bag failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, dust traces, or triboflows, then~~ **the feed to the process** ~~failed units and the associated process~~ ~~will~~ **shall** be shut down immediately until the failed units have 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).

Bag failure can be indicated by a significant drop in the baghouses pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration leaks, dust traces or triboflows.

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

D.1.~~11~~ **10** Record Keeping Requirements

(a) To document compliance with Condition D.1.3(b)(1), the Permittee shall maintain records of the Primary crusher (EU01), the Surge Bin and Transfer System (EU02), the Secondary Crusher (EU03), the Tertiary Crusher (EU04), the North Screen House (EU05), the South Screen House (EU06), the Belt #7 to Belt #8 Conveyor Transfer Point (EU07) and the Belt #8 to Belt #9 Conveyor transfer point (EU08) operating hours.

(b) To document compliance with Condition D.1.7, the Permittee shall maintain records of visible emission notations of the baghouse stack exhausts once per ~~shift~~ **day**.

(c) To document compliance with Condition D.1.8, the Permittee shall maintain records of the ~~differential static of~~ **pressure drop across** each baghouse once per ~~shift~~ **day**.

~~(d) To document compliance with Condition D.1.9, the Permittee shall maintain records of the results of the inspections required under Condition D.1.9.~~

~~(c)~~ **(d)** All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.~~12~~ **11** Reporting Requirements

No other changes.

D.2.10 Particulate Control **326 IAC 2-7-6(6)**

(a) Except as otherwise provided by statute, rule or this permit, ~~each~~ **the** baghouse**s** listed in this section for ~~particulate~~ **PM** control shall be in operation **and control emissions** at all times when its associated facility/emissions unit is in operation in order to comply with Conditions D.2.1, D.2.3 and D.2.7.

(b) In the event that bag failure is observed in a multi-compartment baghouse, 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.2.12 Visible Emissions Notations

Visible emission notations of all of the baghouse stack exhausts controlling the raw mills (EU11, EU11A, EU12 and EU12A), shall be performed once per day during normal daylight operations. Visible emission notations of all other baghouse stack exhausts shall be performed once per ~~shift~~ **day** during normal daylight operations. A trained employee shall record whether emissions from the stacks are normal or abnormal.

(a) 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.

(b) 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.

(c) 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.

(d) On days that the NESHAP monitoring required in Condition D.2.11 is performed, the Permittee may use those results to satisfy the requirements of this condition for the units subject to the NESHAP.

(e) ~~The Compliance Response Plan for these units shall contain troubleshooting contingency and response steps for when an~~ **If** abnormal emission**s** ~~is~~ **are** observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances ~~or when visible emissions are observed crossing the property line~~. Failure to take response steps in accordance with Section C - ~~Compliance Response Plan- Preparation, Implementation~~, ~~Records, and Reports~~ **Response to Excursions or Exceedances** shall be considered a ~~violation~~ **deviation** of this permit.

D.2.13 Parametric Monitoring

The Permittee shall record the ~~total static~~ pressure drop across each baghouse controlling the raw mills (EU11, EU11A, EU12 and EU12A) at least once per ~~shift~~ **day** when the associated facility/ emissions unit is in operation. The Permittee shall record the pressure drop across all other baghouses listed in this section, at least once per day when the associated facility/ emissions unit is in operation. When for any one reading, the pressure drop across each baghouse is outside the normal range of 1.0 and 8.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances**. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances**, shall be considered a ~~violation~~ **deviation** of this permit.

The instrument used for determining the pressure shall comply with Section C - ~~Pressure Gauge and Other~~ 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.2.14 Baghouse Inspections~~

~~An inspection shall be performed each calendar quarter of all bags controlling the processes listed in this section when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting to the indoors. Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced~~.

D.2.~~15~~ **14** Broken or Failed Bag Detection

In the event that bag failure has been observed.

~~(a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if there are no visible emissions from the emission unit, control device, or stack, or if the event qualifies as an emergency and the Permittee satisfies the emergency provisions of this permit (Section B- Emergency Provisions). Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.~~

~~(b)~~ **(a)** For **a** single compartment baghouse~~s~~ **controlling emissions from a process operated continuously**, ~~if failure is indicated by a significant drop in the baghouse's pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if bag failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, dust traces, or triboflows, then~~ failed units and the associated process ~~will~~ **shall** be shut down immediately until the failed units have 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 baghouses~~s~~ **controlling emissions from a batch process,** ~~if failure is indicated by a significant drop in the baghouse's pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if bag failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, dust traces, or triboflows, then~~ **the feed to the process** ~~failed units and the associated process will~~ **shall** be shut down immediately until the failed units have 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).

Bag failure can be indicated by a significant drop in the baghouses pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows.

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

D.2.~~16~~ **15** Record Keeping Requirements

(a) To document compliance with Condition D.2.12, the Permittee shall maintain records of visible emission notations of the baghouse stack exhausts controlling the raw mills (EU11, EU11A, EU12 and EU12A) once per day and all other baghouse stack exhausts once per ~~shift~~ **day**.

(b) To document compliance with Condition D.2.13, the Permittee shall maintain records of the ~~differential static~~ **pressure drop across** ~~of~~ each baghouse controlling the raw mills (EU11, EU11A, EU12 and EU12A) once per day and all other baghouses once per ~~shift~~ **day**.

~~(c) To document compliance with Condition D.2.14, the Permittee shall maintain records of the results of the inspections required under Condition D.2.14.~~

~~(d)~~ **(c)** On and after the NESHAP 40 CFR 63, Subpart LLL compliance date, to document compliance with the NESHAP, 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 60.1355(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:

(A) All documentation supporting initial notifications and notifications of compliance status under 40 CFR 63.9.

(B) All records of applicability determination, including supporting analyses.

(e) To document compliance with Condition D.2.7(a), the Permittee shall maintain records of the Conveying System to Transport Raw Material to Storage (EU09) and the Shale Crusher (EU10) operating hours.

(f) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.2.~~17~~ **16** Reporting Requirements

No other Changes.

D.3.9 Particulate Control **326 IAC 2-7-6(6)**

(a) Pursuant to CP093-2770 issued March 3, 1993, for the three clinker ladders (EU26c, EU28 and EU30 and the lime bin (EU38), and in order for all units to comply with Conditions D.3.1, D.3.4 and D.3.6, except as otherwise provided by statute, rule or this permit, each baghouse listed in this section for particulate control shall be in operation **and control emissions** at all times when its associated facility/emissions unit is in operation.

(b) In the event that bag failure is observed in a multi-compartment baghouse, 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.3.11 Visible Emissions Notations

Visible emission notations of all of the baghouse stack exhausts controlling the raw mill storage facilities/emissions units (EU13, EU14, EU18, EU20 and EU22), the conveyor transfer points associated with the clinker handling facilities/emission units (EU25, EU26a, EU26b, EU27, and EU29) the roll crusher (EU31), the finish mill facilities/emission units (EU32 through EU36 and EU38), and the finish material storage and bulk loading and packaging facilities/emission units (EU37, EU39 through EU47) shall be performed once per day during normal daylight operations. Visible emission notations of all other baghouse stack exhausts shall be performed once per ~~shift~~ **day** during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.

(a) 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.

(b) 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.

(c) 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.

(d) On days that the NESHAP monitoring required in Condition D.3.10 is performed, the Permittee may use those results to satisfy the requirements of this condition for those facilities monitored.

(e) ~~The Compliance Response Plan for these units shall contain troubleshooting contingency and response steps for when an~~ **If** abnormal emission**s** ~~is~~ **are** observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to

Excursions or Exceedances ~~or when visible emissions are observed crossing the property line~~. Failure to take response steps in accordance with Section C - ~~Compliance Response Plan- Preparation, Implementation~~, ~~Records, and Reports~~ **Response to Excursions or Exceedances** shall be considered a ~~violation~~ **deviation** of this permit.

D.3.12 Parametric Monitoring

The Permittee shall record the ~~total static~~ pressure drop across each baghouse associated with the raw mill storage facilities/emissions units (EU13, EU14, EU18, EU20 and EU22), the conveyor transfer points associated with the clinker handling facilities/emission units (EU25, EU26a, EU26b, EU27, and EU29) the roll crusher (EU31), the finish mill facilities/emission units (EU32 through EU36 and EU38), and the finish material storage and bulk loading and packaging facilities/emission units (EU37, EU39 through EU47) at least once per day when the associated facility/emission units are in operation and venting to the atmosphere. The Permittee shall record the pressure drop across all other baghouses at least once per day when the associated facility/emission units are in operation and venting to the atmosphere. When for any one reading, the ~~total static~~ pressure drop across a baghouse is outside the normal range of 1.0 and 8.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances**. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances**, shall be considered a violation of this permit.

The instrument used for determining the pressure shall comply with Section C - ~~Pressure Gauge and Other~~ 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.3.13 Baghouse Inspections~~

~~An inspection shall be performed each calendar quarter of all bags controlling the process listed in this section when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting to the indoors. Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.~~

D.3.~~14~~ **13** Broken or Failed Bag Detection

In the event that bag failure has been observed.

~~(a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if there are no visible emissions from the emission unit, control device, or stack, or if the event qualifies as an emergency and the Permittee satisfies the emergency provisions of this permit (Section B- Emergency Provisions). Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.~~

~~(b)~~ **(a)** For **a** single compartment baghouses~~.~~ **controlling emissions from a process operated**

continuously, ~~if failure is indicated by a significant drop in the baghouse's pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if bag failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, dust traces, or triboflows, then~~ failed units and the associated process ~~will~~ **shall** be shut down immediately until the failed units have 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~~s~~ **controlling emissions from a batch process,** ~~if failure is indicated by a significant drop in the baghouse's pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if bag failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, dust traces, or triboflows, then~~ **the feed to the process** ~~failed units and the associated process~~ ~~will~~ **shall** be shut down immediately until the failed units have 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).

Bag failure can be indicated by a significant drop in the baghouses pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows.

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

D.3.~~15~~ **14** Record Keeping Requirements

(a) To document compliance with Condition D.3.11, the Permittee shall maintain records of visible emission notations of the baghouse stack exhausts controlling the raw mill storage facilities/emissions units (EU13, EU14, EU18, EU20 and EU22), the conveyor transfer points associated with the clinker handling facilities/emission units (EU25, EU26a, EU26b, EU27, and EU29) the roll crusher (EU31), the finish mill facilities/emission units (EU32 through EU36 and EU38), and the finish material storage and bulk loading and packaging facilities/emission units (EU37, EU39 through EU47) once per day and all other baghouse stack exhausts once per ~~shift~~ **day**.

(b) To document compliance with Condition D.3.12, the Permittee shall maintain records of the ~~inlet and outlet differential static~~ pressure **drop** of each baghouse associated with the raw mill storage facilities/emissions units (EU13, EU14, EU18, EU20 and EU22), the conveyor transfer points associated with the clinker handling facilities/emission units (EU25, EU26a, EU26b, EU27, and EU29) the roll crusher (EU31), the finish mill facilities/emission units (EU32 through EU36 and EU38), and the finish material storage and bulk loading and packaging facilities/emission units (EU37, EU39 through EU47) once per day and all other baghouses once per ~~shift~~ **day**.

~~(c) To document compliance with Condition D.3.13, the Permittee shall maintain records of the results of the inspections required under Condition D.3.13.~~

~~(d)~~ **(c)** 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:

(A) All documentation supporting initial notifications and notifications of compliance status under 40 CFR 63.9.

(B) All records of applicability determination, including supporting analyses.

~~(e)~~ **(d)** To document compliance with Condition D.3.6(b)(5), (15), (22) and (25), the Permittee shall maintain records of the Finish Mill Surge Bin (EU37), the Lime Bin (EU38), the Railroad Loadout Bin (EU45), the Articuloader (EU46) and the Packing Machine (EU47) operating hours.

~~(f)~~ **(e)** All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.3.~~16~~ **15** Reporting Requirements

No other changes.

D.4.9 Particulate Control **[326 IAC 2-7-6(6)]**

(a) Except as otherwise provided by statute, rule or this permit, the ESPs (KP1, KP2, and KP3) for PM control shall be in operation at all times when the associated kiln is in operation **and control emissions**, in order to demonstrate compliance with Conditions D.4.1 and D.4.4.

(b) In the event that bag failure is observed in a multi-compartment baghouse, 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.4.14 Parametric Monitoring

(a) The ability of the ESPs to control particulate emissions shall be monitored once per ~~shift~~ **day** when the units are in operation, by measuring and recording and comparing the total power of the ESP to the minimum total power of thirty-five kilowatts (35 kW).

(b) When for any reading, the total power is below the minimum total power of 35 kW, the Permittee shall take reasonable response steps in accordance with Section C – ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances**. A total power reading below the minimum is not a deviation from this permit.

Failure to take response steps in accordance with Section C - ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances**, shall be considered a ~~violation~~ **deviation** of this permit.

D.4.15 Opacity Readings

The ability of the ESP to control particulate emissions shall be monitored by continuously measuring and recording the opacity of emissions from each of the kiln stack exhausts (S-KP1 and S-KP2).

(a) The opacity shall be determined by the certified continuous opacity monitor required in Condition D.4.11.

D.5.9 Particulate Control **[326 IAC 2-7-6(6)]**

(a) Except as otherwise provided by statute, rule or this permit, each baghouse (KDC2, KDC4 and KDC6) for PM control shall be in operation at all times when its associated clinker cooler is in operation **and control emissions**, in order to demonstrate compliance with Condition D.5.1 and D.5.4.

D.5.11 Parametric Monitoring

The Permittee shall record the ~~total static~~ pressure drop across each clinker cooler baghouse (KDC2, KDC4 and KDC6), at least once per day when the associated facility/emissions unit is in operation and venting to the atmosphere. When for any one reading, the pressure drop across a baghouse is outside the normal range of 1.0 and 8.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation of this permit.

The instrument used for determining the pressure shall comply with Section C - ~~Pressure Gauge and Other~~ 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.5.12 Baghouse Inspections~~

~~An inspection shall be performed each calendar quarter of all bags controlling the process listed in this section when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting to the indoors. Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.~~

D.5.~~13~~ **12** Broken or Failed Bag Detection

In the event that bag failure has been observed.

~~(a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if there are no visible emissions from the emission unit, control device, or stack, or if the event qualifies as an emergency and the Permittee satisfies the emergency provisions of this permit (Section B- Emergency Provisions). Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with~~

~~Section C - Response to Excursions or Exceedances, shall be considered a violation of this permit~~.

~~(b)~~ **(a)** For **a** single compartment baghouse~~s~~ **controlling emissions from a process operated continuously**, ~~if failure is indicated by a significant drop in the baghouse's pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if bag failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, dust traces, or triboflows, then~~ failed units and the associated process ~~will~~ **shall** be shut down immediately until the failed units have 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~~s~~ **controlling emissions from a batch process,** ~~if failure is indicated by a significant drop in the baghouse's pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if bag failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, dust traces, or triboflows, then~~ **the feed to the process** ~~failed units and the associated process~~ ~~will~~ **shall** be shut down immediately until the failed units have 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).

Bag failure can be indicated by a significant drop in the baghouses pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows.

D.5.~~14~~ **13** Opacity Readings

The ability of the baghouses to control particulate emissions shall be monitored by continuously measuring and recording the opacity of emissions from each of the clinker cooler stack exhausts (S-KDC2, S-KDC4, and S-KDC6).

~~(a) Appropriate response steps shall be taken in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports whenever the opacity exceeds 8 percent for three (3) consecutive six (6) minute averaging periods. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.~~

(a) The opacity shall be determined by the certified continuous opacity monitor required in Condition D.5.8.

D.5.~~15~~ **14** Record Keeping Requirements

(a) To document compliance with Conditions D.5.4, D.5.6, D.5.7, and D.5.8, the Permittee shall maintain records in accordance with (1) and (2) below.

(1) Data and results from the most recent stack test.

(2) All continuous emissions monitoring data.

(b) To document compliance with Condition D.5.11, the Permittee shall maintain records of the ~~differential static~~ pressure **drop** of each baghouse once per day.

~~(c) To document compliance with Condition D.5.12, the Permittee shall maintain records of the results of the inspections required under Condition D.5.12.~~

~~(d)~~ **(c)** 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:

(A) All documentation supporting initial notifications and notifications of compliance status under 40 CFR 63.9.

(B) 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)~~ **(d)** All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.5.~~16~~ **15** Reporting Requirements

No other changes.

D.7.7 Particulate Control **[326 IAC 2-7-6(6)]**

(a) In order to comply with condition D.7.3, the baghouse for particulate control shall be in operation and control emissions from the CKD storage silo, identified as EU48, at all times that the CKD storage silo is in operation.

(b) In the event that bag failure is observed in a multi-compartment baghouse, 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.7.10 Visible Emissions Notations

(a) Visible emission notations of the calcium sulfate material facilities/emission units, including the synthetic gypsum hopper (F11), synthetic gypsum weight belt (F15), raw material hopper (F13), raw material weight belt (F16), main belt #1 (F17), CKD storage silo (EU48), main belt #2 (F18), and all transfer points 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, 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) ~~The Compliance Response Plan for these units shall contain troubleshooting contingency and response steps for when an~~ **If** abnormal emission**s** ~~is~~ **are** observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances ~~or when visible emissions are observed crossing the property line~~. Failure to take response steps in accordance with Section C - ~~Compliance Response Plan-Preparation, Implementation~~, ~~Records, and Reports~~ **Response to Excursions or Exceedances** shall be considered a ~~violation~~ **deviation** of this permit.

D.7.11 Record Keeping Requirements [326 IAC 20-27] [40 CFR 63.1355]

~~(c) To document compliance with Condition D.7.5, the Permittee shall maintain records of any additional inspections prescribed by the Preventive Maintenance Plan.~~

(~~d~~ **c**) To document compliance with Condition D.7.10, the Permittee shall maintain records of visible emission notations of the calcium sulfate material facilities/emission units, including the synthetic gypsum hopper (F11), synthetic gypsum weight belt (F15), raw material hopper (F13), raw material weight belt (F16), main belt #1 (F17), CKD storage silo (EU48), main belt #2 (F18), and all transfer points once per day.

(~~e~~ **d**) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

Conclusion

This proposed modification shall be subject to the conditions of the attached proposed Part 70 Significant Source Modification No. 093-21793-00002 and Significant Permit Modification No. 093-21975-00002.

Attachment A1

Ms. Debbie Tolliver
Lehigh Cement Company
121 North First Street
P.O. Box 97
Mitchell, Indiana 47446

Re: 093-21975-00002
Significant Permit Modification to
Part 70 No.: T093- 5990-00002

Dear Ms. Tolliver:

Lehigh Cement Company, located at 121 North First Street, Mitchell, Indiana 47446 was issued a Part 70 permit on December 30, 2002 for a portland cement manufacturing plant. A letter requesting changes to this permit was received on September 13, 2005. Lehigh requested its Part 70 Operating Permit be modified to allow the burning of coal and treated wood blends in Kiln #1 and Kiln #2. Lehigh's application also included the request to utilize the Kiln #1 and Kiln #2 alternative fuel delivery systems (F19 and F20) to deliver the treated wood to Kilns #1 and Kiln #2.

Pursuant to the provisions of 326 IAC 2-7-12 a significant permit modification to this permit is hereby approved.

Part 70 Operating Permit No. 093-5990-00002 has been modified to:

1. Include that Kiln #1 and Kiln #2 are each permitted to burn a blended fuel of coal and clean and/or treated wood where the blend has a maximum of 35% clean and/or treated wood by heat input in the facility descriptions in Section A.2(ccc) and (ddd), and in Section D.4;
2. Amend IDEM's address in Sections B.10(a), B.11(a), B.12(b)(5), B.15(b), B.17(a), B.18(b), B.20(a)(4), B.23(b), C.8(d), C.9(a), C.11, C.19(b), C.21(b), C.22(f), and on the Emergency Occurrence Report Form;
3. Incorporate the credible evidence requirements of 326 IAC 1-1-6 into Condition B.25 and in the Table of Contents;
4. Incorporate the 326 IAC 2-2-8(b) and (c) New Source Review record keeping and reporting requirements in Conditions C.20 and C.21 and in the Table of Contents;
5. Correct the reference to the citation "40 CFR 63.1349(b)(2)" in Condition D.2.9(c);
6. Clarify the NESHAP requirements in Condition D.2.11(a) consistent with 40 CFR § 63.1350; and
7. Include in Condition D.4.1.1 that Kiln #1 and Kiln #2 are both permitted to burn a blended fuel of coal and treated wood where the blend has a maximum of up to 35% clean and/or treated wood by heat input.

Other than the permit modifications detailed in this approval letter, all other conditions/requirements of Lehigh Cement Company's Part 70 Operating Permit shall remain unchanged and unaffected. Please find enclosed a reprinted copy of the entire Part 70 Operating 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, please contact Walter Habeeb OAQ, 100 North Senate Avenue, Indianapolis, Indiana, 46204, or call at (800) 451-6027, and ask for Walter Habeeb or extension (2-8422), or dial (317) 232-8422.

Sincerely,

Nisha Sizemore, Chief
Permit Branch
Office of Air Quality

Attachments
WH
cc: File - Lawrence County
U.S. EPA, Region V
Lawrence County Health Department

Ms. Debbie Tolliver
Lehigh Cement Company
121 North First Street
P.O. Box 97
Mitchell, Indiana 47446

Attachment B1

Re: 093-21793-00002
Significant Source Modification to
Part 70 No.: T093- 5990-00002

Dear Ms. Tolliver:

Lehigh Cement Company, located at 121 North First Street, Mitchell, Indiana 47446 was issued a Part 70 permit on December 30, 2002 for a portland cement manufacturing plant. A letter requesting changes to this permit was received on September 13, 2005. Pursuant to 326 IAC 2-7-10.5 the modification request to allow the burning of coal and treated wood blends in Kiln #1 and Kiln #2, and to utilize the Kiln #1 and Kiln #2 alternative fuel delivery systems (F19 and F20) to deliver the treated wood to Kiln #1 and Kiln #2 is approved.

Although the modification does not involve any construction, the modification is subject to 326 IAC 2-7-10.5 because the modification has the potential to emit greater than or equal to ten (10) tons per year of a single hazardous air pollutant or twenty-five (25) tons per year of any combination of hazardous air pollutants.

The following conditions are applicable to the source modification:

1. The data and information supplied with the application shall be considered part of this source modification approval. Prior to any proposed change which may affect the potential to emit (PTE) of the proposed project, the change must be approved by the Office of Air Quality (OAQ).

2. This approval does not relieve the permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.

3. Effective Date of the Permit
Pursuant to IC 13-15-5-3, this approval becomes effective upon its issuance.

4. All requirements and conditions of this source modification approval shall remain in effect unless modified in a manner consistent with procedures established pursuant to 326 IAC 2.

6. Pursuant to 326 IAC 2-7-10.5(g)(4)(C), operation of this modification is not approved until the Significant Permit Modification has been issued.

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 Walter Habeeb or extension (2-8422), or dial (317) 232-8422.

Sincerely,

Nisha Sizemore, Chief
Permits Branch
Office of Air Quality

Attachments
WVH
cc: File - Lawrence County
Lawrence County Health Department
Air Compliance Section Inspector – Ray Schick
Compliance Data Section
Administrative and Development

Company Name: **Lehigh Cement Company**
Address: **121 North First Street, Mitchell, Indiana 47446**
Permit Number: **093-21975-00002 & 093-21793-00002**
Reviewer: **Walter Habeeb**
Date: **October 14, 2005**

NSR Project Evaluation (tpy) *								
	CO	NOx	SO2	VOC	PM	PM10	Pb	HAPs
Adjusted Baseline Actual Emissions	395.59	2,638.79	1,778.93	63.96	66.33	139.76	0.01671	13.20
Projected Actual Emissions	486.03	1,482.23	1,340.61	9.66	55.78	74.53	0.02253	17.78
Net Emissions	90.44	-1,156.56	-438.32	-54.30	-10.55	-65.23	0.00582	4.58
PSD Threshold Level	100	40	40	40	25	15	0.60	10 single 25 all

* Emissions provided by the source and based on adjusted baseline actual emissions for CO, NOx, SO2, VOC, PM and PM10 for time period April 1998 through March 2000. Adjusted baseline actual emissions for Pb is based on time period August 2003 through July 2005. Adjusted baseline actual emissions for HAPs are based on the time period July 2003 through June 2005.

Potential to Emit (tpy) *								
	CO	NOx	SO2	VOC	PM	PM10	Pb	HAPs
Potential to Emit before Modification (tpy)	537.53	3,585.69	2,417.28	96.56	91.18	190.41	0.54397	18.32
Potential to Emit after Modification (tpy)	537.53	3,585.69	2,417.28	96.56	91.18	190.41	0.54396	18.32
Net Emission Increase (tpy)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

*Emissions provided by the source. Before modification emissions based on Part 70 Operating Permit limits. After modification (alternative fuel delivery system) emissions based on AP-42 Section 13.2.4.