



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant

DATE: May 11, 2011

RE: Rogers Group, Inc Brick & Block, LLC / 097-29927-00590

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

Notice of Decision: Approval - Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-15-5-3, this permit is effective immediately, unless a petition for stay of effectiveness is filed and granted according to IC 13-15-6-3, 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 and IC 13-15-6-1 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 of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) calendar 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.

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
FNPER.dot12/03/07



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Federally Enforceable State Operating Permit OFFICE OF AIR QUALITY

Rogers Group, Inc. Brick & Block, LLC
2301 Hawthorne Lane
Indianapolis, Indiana 46218

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

The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in Section B, Emergency Provisions.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-8 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.

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a FESOP under 326 IAC 2-8.

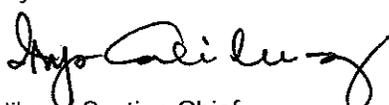
Operation Permit No.: F097-29927-00590	
Issued by:  Iryn Calilung, Section Chief Permits Branch Office of Air Quality	Issuance Date: May 11, 2011 Expiration Date: May 11, 2016

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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 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 2-8-3(b)]

The Permittee owns and operates a stationary brick and block manufacturing plant.

Source Address:	2301 Hawthorne Lane, Indianapolis, Indiana 46218
General Source Phone Number:	(765) 349-5781
SIC Code:	3271
County Location:	Marion
Source Location Status:	Nonattainment for PM2.5 standard Attainment for all other criteria pollutants
Source Status:	Federally Enforceable State Operating Permit Program Minor Source, under PSD and Emission Offset Rules Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

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

Plant 1

- (a) One (1) enclosed cement mixer, identified as CM-01, constructed in 1971, with a capacity of 26 tons per hour, using no controls and exhausting outdoors.
- (b) Two (2) silos, identified as S-1 and S-2, constructed in 1971, with a storage capacity of 50 tons and 25 tons respectively, using a baghouse, identified as BH1, for particulate control and exhausting outdoors.
- (c) Five (5) aggregate storage, identified as AG-1 through AG-5, constructed in 1971, with a storage capacity of 50 tons each.
- (d) One (1) transfer conveyor (42 in X 100 ft), identified as C-1, constructed in 1971, with a capacity of 60 tons of aggregate per hour, using skirt boards for particulate control.
- (e) One (1) transfer conveyor (36 in X 500 ft), identified as C-2, constructed in 1971, with a capacity of 60 tons of aggregate per hour, using skirt boards for particulate control.
- (f) One (1) natural gas-fire kiln, identified as Kiln-1, constructed in 1971, with a rated capacity of 1.00 MMBtu/hr, using no controls and exhausting indoors.
- (g) One (1) block forming and cutting line, identified as Block 1, constructed in 1971, with a maximum capacity of 1,200 blocks per hour (38 lbs per block), using no controls, and exhausting indoors.

Plant 2

- (h) Two (2) enclosed cement mixers, identified as CM-02 and CM-03, with a capacity of 20 tons per hour, each, constructed in 1971, using no controls exhausting outdoors.

- (i) Two (2) silos, identified as S-3 and S-4, with a storage capacity of 50 tons and 35 tons respectively, constructed in 1971, using a baghouse, identified as BH2, for particulate control and exhausting outdoors.
- (j) Five (5) aggregate storage, identified as AG-6 through AG-9, with a storage capacity of 50 tons each, constructed in 1971.
- (k) One (1) transfer conveyor (36 in X 150 ft), identified as C-3, constructed in 1971, with a capacity of 60 tons of aggregate per hour, using skirt boards for particulate control.
- (l) One (1) transfer conveyor (36 in X 140 ft), identified as C-4, constructed in 1971, with a capacity of 60 tons of aggregate per hour, using skirt boards for particulate control.
- (m) One (1) natural gas-fire kiln identified as Kiln-2, with a rated capacity of 1.00 MMBtu/hr, constructed in 1971, using no controls and exhausting indoors.
- (n) One (1) block forming and cutting line, identified as Block 2, constructed in 1971, with a maximum capacity of 1,200 blocks per hour (38 lbs per block), using no controls, and exhausting indoors.

A.3 Insignificant Activities [326 IAC 2-7-1(21)][326 IAC 2-8-3(c)(3)(I)]

This stationary source has the following insignificant activities:

Paved and unpaved roads and parking lots with public access. [326 IAC 6-4]

A.4 FESOP Applicability [326 IAC 2-8-2]

This stationary source, otherwise required to have a Part 70 permit as described in 326 IAC 2-7-2(a), has applied to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) for a Federally Enforceable State Operating Permit (FESOP).

SECTION B GENERAL CONDITIONS

B.1 Definitions [326 IAC 2-8-1]

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 2-8-4(2)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]

- (a) This permit, F097-29927-00590, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, until the renewal permit has been issued or denied.

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

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

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

B.4 Enforceability [326 IAC 2-8-6] [IC 13-17-12]

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

B.5 Severability [326 IAC 2-8-4(4)]

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 2-8-4(5)(D)]

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

B.7 Duty to Provide Information [326 IAC 2-8-4(5)(E)]

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

B.8 Certification [326 IAC 2-8-3(d)][326 IAC 2-8-4(3)(C)(i)][326 IAC 2-8-5(1)]

- (a) A certification required by this permit meets the requirements of 326 IAC 2-8-5(a)(1) if:

- (1) it contains a certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1), and
 - (2) the certification states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) The Permittee may use the attached Certification Form, or its equivalent with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
 - (c) An "authorized individual" is defined at 326 IAC 2-1.1-1(1).

B.9 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]

- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. The initial certification shall cover the time period from the date of final permit issuance through December 31 of the same year. All subsequent certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted no later than April 15 of each year to:

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

- (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 2-8-4(3); and
 - (5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ may require to determine the compliance status of the source.

The submittal by the Permittee does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

B.10 Compliance Order Issuance [326 IAC 2-8-5(b)]

IDEM, OAQ may issue a compliance order to this Permittee upon discovery that this permit is in nonconformance with an applicable requirement. The order may require immediate compliance or contain a schedule for expeditious compliance with the applicable requirement.

B.11 Preventive Maintenance Plan [326 IAC 1-6-3][326 IAC 2-8-4(9)][326 IAC 2-8-5(a)(1)]

(a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, including the following information on each facility:

- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
- (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
- (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If, due to circumstances beyond the Permittee's control, the PMPs cannot be prepared and maintained 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 and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

The PMP extension notification does not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

The Permittee shall implement the PMPs.

- (b) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions. The PMPs and their submittal do not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) 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 2-8-12]

- (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 except as provided in 326 IAC 2-8-12.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly

signed, contemporaneous operating logs or other relevant evidence that describe the following:

- (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
- (2) The permitted facility was at the time being properly operated;
- (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
- (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance and Enforcement Branch), or
Telephone Number: 317-233-0178 (ask for Office of Air Quality, Compliance and Enforcement Branch)
Facsimile Number: 317-233-6865

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

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

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

The notice fulfills the requirement of 326 IAC 2-8-4(3)(C)(ii) and must contain the following:

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

The notification which shall be submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.

- (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ may require that the Preventive Maintenance Plans required under 326 IAC 2-8-3(c)(6) be revised in response to an emergency.
- (f) Failure to notify IDEM, OAQ by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-8 and any other applicable rules.
- (g) Operations may continue during an emergency only if the following conditions are met:
 - (1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
 - (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
 - (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and
 - (B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.

Any operations shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.

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

- (a) All terms and conditions of permits established prior to F097-29927-00590 and issued pursuant to permitting programs approved into the state implementation plan have been either:
 - (1) incorporated as originally stated,
 - (2) revised, or
 - (3) deleted.
- (b) All previous registrations and permits are superseded by this permit.

B.14 Termination of Right to Operate [326 IAC 2-8-9][326 IAC 2-8-3(h)]

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 2-8-3(h) and 326 IAC 2-8-9.

B.15 Permit Modification, Reopening, Revocation and Reissuance, or Termination
[326 IAC 2-8-4(5)(C)][326 IAC 2-8-7(a)][326 IAC 2-8-8]

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Federally Enforceable State Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-8-4(5)(C)] The notification by the Permittee does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (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 2-8-8(a)]
- (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 2-8-8(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-8-8(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 2-8-8(c)]

B.16 Permit Renewal [326 IAC 2-8-3(h)]

- (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 2-8-3. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

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

- (b) A timely renewal application is one that is:
 - (1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
 - (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the

document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

- (c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified, pursuant to 326 IAC 2-8-3(g), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.17 Permit Amendment or Revision [326 IAC 2-8-10][326 IAC 2-8-11.1]

- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-8-10 or 326 IAC 2-8-11.1 whenever the Permittee seeks to amend or modify this permit.

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

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

Any such application does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.18 Operational Flexibility [326 IAC 2-8-15][326 IAC 2-8-11.1]

- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-8-15(b) through (d) 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 approval required by 326 IAC 2-8-11.1 has been obtained;
- (3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
- (4) The Permittee notifies the:

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

and

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

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and

- (5) The Permittee maintains records on-site, on a rolling five (5) year basis, which document all such changes and emission trades that are subject to 326 IAC 2-8-15(b) through (d). 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 2-8-15(b)(2), (c)(1), and (d).

- (b) Emission Trades [326 IAC 2-8-15(c)]
The Permittee may trade emissions increases and decreases at the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-8-15(c).
- (c) Alternative Operating Scenarios [326 IAC 2-8-15(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 2-8-4(7). No prior notification of IDEM, OAQ, or U.S. EPA is required.
- (d) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

B.19 Source Modification Requirement [326 IAC 2-8-11.1]

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

B.20 Inspection and Entry [326 IAC 2-8-5(a)(2)][IC 13-14-2-2][IC 13-17-3-2][IC 13-30-3-1]

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 FESOP 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, at reasonable times, 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, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;

- (d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.21 Transfer of Ownership or Operational Control [326 IAC 2-8-10]

- (a) The Permittee must comply with the requirements of 326 IAC 2-8-10 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

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

Any such application does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.22 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-8-4(6)] [326 IAC 2-8-16][326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees to IDEM, OAQ no later than 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) 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.23 Credible Evidence [326 IAC 2-8-4(3)][326 IAC 2-8-5][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, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether the Permittee would have been in compliance with the condition of this permit if the appropriate performance or compliance test or procedure had been performed.

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

Emission Limitations and Standards [326 IAC 2-8-4(1)]

C.1 Overall Source Limit [326 IAC 2-8]

The purpose of this permit is to limit this source's potential to emit to less than major source levels for the purpose of Section 502(a) of the Clean Air Act.

- (a) Pursuant to 326 IAC 2-8:
 - (1) The potential to emit any regulated pollutant, except particulate matter (PM), from the entire source shall be limited to less than one hundred (100) tons per twelve (12) consecutive month period.
 - (2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and
 - (3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.
- (b) Pursuant to 326 IAC 2-2 (PSD), potential to emit particulate matter (PM) from the entire source shall be limited to less than one hundred (100) tons per twelve (12) consecutive month period.
- (c) This condition shall include all emission points at this source including those that are insignificant as defined in 326 IAC 2-7-1(21). The source shall be allowed to add insignificant activities not already listed in this permit, provided that the source's potential to emit does not exceed the above specified limits.
- (d) Section D of this permit contains independently enforceable provisions to satisfy this requirement.

C.2 Opacity [326 IAC 5-1]

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

- (a) Opacity shall not exceed an average of thirty percent (30%) 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.

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

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

C.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).

C.6 Fugitive Particulate Matter Emission Limitations [326 IAC 6-5]

Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the attached plan as in Attachment A.

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 by using ambient air quality modeling pursuant to 326 IAC 1-7-4.

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
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
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 that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (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 14-10-1, 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 Licensed 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 Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos.

Testing Requirements [326 IAC 2-8-4(3)]

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

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

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

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

C.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 2-8-4][326 IAC 2-8-5(a)(1)]

C.11 Compliance Monitoring [326 IAC 2-8-4(3)][326 IAC 2-8-5(a)(1)]

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

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

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

The notification which shall be submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

C.12 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-8-4(3)][326 IAC 2-8-5(1)]

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

Corrective Actions and Response Steps [326 IAC 2-8-4][326 IAC 2-8-5(a)(1)]

C.13 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 shall prepare written emergency reduction plans (ERPs) consistent with safe operating procedures.

- (b) These ERPs shall be submitted for approval to:

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

no later than ninety (90) days after the date of issuance of this permit.

The ERP does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) 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.
- (d) These ERPs shall state those actions that will be taken, when each episode level is declared, to reduce or eliminate emissions of the appropriate air pollutants.
- (e) Said ERPs shall also identify the sources of air pollutants, the approximate amount of reduction of the pollutants, and a brief description of the manner in which the reduction will be achieved.
- (f) 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.14 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68]

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

C.15 Response to Excursions or Exceedances [326 IAC 2-8-4] [326 IAC 2-8-5]

Upon detecting an excursion where a response step is required by the D Section or an exceedance of a limitation in this permit:

- (a) The Permittee shall take reasonable response steps to restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing excess emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction. The response may include, but is not limited to, the following:
- (1) initial inspection and evaluation;
 - (2) recording that operations returned or are returning 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 normal or usual manner of operation.
- (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; and/or
 - (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 record the reasonable response steps taken.

C.16 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4][326 IAC 2-8-5]

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall submit a description of its response actions to IDEM, OAQ, no later than seventy-five (75) days after the date of the test.
- (b) A retest to demonstrate compliance shall be performed no later than one hundred eighty (180) days after the date of the test. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred eighty (180) days is not practicable, IDEM, OAQ may extend the retesting deadline
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The response action documents submitted pursuant to this condition do require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

C.17 General Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-5]

- (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, for all record keeping requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or the date of initial start-up, whichever is later, to begin such record keeping.

C.18 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]

- (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 except that a deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. This report shall be submitted not later than thirty (30) days after the end of the reporting period. The

Quarterly Deviation and Compliance Monitoring Report shall include a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1). A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

- (b) The address for report submittal is:

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

- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (d) The first report shall cover the period commencing on the date of issuance of this permit or the date of initial start-up, whichever is later, and ending on the last day of the reporting period. Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit, "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

Stratospheric Ozone Protection

C.19 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 applicable standards for recycling and emissions reduction.

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

Plant 1

- (a) One (1) enclosed cement mixer, identified as CM-01, constructed in 1971, with a capacity of 26 tons per hour, using no controls and exhausting outdoors.
- (b) Two (2) silos, identified as S-1 and S-2, constructed in 1971, with a storage capacity of 50 tons and 25 tons respectively, using a baghouse, identified as BH1, for particulate control and exhausting outdoors.
- (c) Five (5) aggregate storage, identified as AG-1 through AG-5, constructed in 1971, with a storage capacity of 50 tons each.
- (d) One (1) transfer conveyor (42 in X 100 ft), identified as C-1, constructed in 1971, with a capacity of 60 tons of aggregate per hour, using skirt boards for particulate control.
- (e) One (1) transfer conveyor (36 in X 500 ft), identified as C-2, constructed in 1971, with a capacity of 60 tons of aggregate per hour, using skirt boards for particulate control.
- (f) One (1) natural gas-fire kiln, identified as Kiln-1, constructed in 1971, with a rated capacity of 1.00 MMBtu/hr, using no controls and exhausting indoors.
- (g) One (1) block forming and cutting line, identified as Block 1, constructed in 1971, with a maximum capacity of 1,200 blocks per hour (38 lbs per block), using no controls, and exhausting indoors.

Plant 2

- (h) Two (2) enclosed cement mixers, identified as CM-02 and CM-03, with a capacity of 20 tons per hour, each, constructed in 1971, using no controls exhausting outdoors.
- (i) Two (2) silos, identified as S-3 and S-4, with a storage capacity of 50 tons and 35 tons respectively, constructed in 1971, using a baghouse, identified as BH2, for particulate control and exhausting outdoors.
- (j) Five (5) aggregate storage, identified as AG-6 through AG-9, with a storage capacity of 50 tons each, constructed in 1971.
- (k) One (1) transfer conveyor (36 in X 150 ft), identified as C-3, constructed in 1971, with a capacity of 60 tons of aggregate per hour, using skirt boards for particulate control.
- (l) One (1) transfer conveyor (36 in X 140 ft), identified as C-4, constructed in 1971, with a capacity of 60 tons of aggregate per hour, using skirt boards for particulate control.
- (m) One (1) natural gas-fire kiln, identified as Kiln-2, with a rated capacity of 1.00 MMBtu/hr, constructed in 1971, using no controls and exhausting indoors.
- (n) One (1) block forming and cutting line, identified as Block 2, constructed in 1971, with a maximum capacity of 1,200 blocks per hour (38 lbs per block), using no controls, and exhausting indoors.

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

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.1.1 Particulate Matter (PM) PSD Minor Limits [326 IAC 2-2]

In order to render the 326 IAC 2-2 (PSD) requirements not applicable, particulate matter (PM) emissions from the two Baghouses BH1 (controlling silos S-1 and S-2) and BH2 (controlling silos S-3 and S-4) shall not exceed the emissions limits listed in the table below:

Baghouse (Unit ID)	PM Emission Limit (lbs/hr)
Baghouse BH1 (S-1,S-2)	7.99
Baghouse BH2 (S-3,S-4)	7.99

Compliance with this limitation, combined with the potential to emit PM from other emission units at this source, shall limit the source-wide PTE of PM to less than 250 tons per twelve (12) consecutive month period and shall render the requirement of 326 IAC 2-2 not applicable.

D.1.2 Particulate Matter Less Than 10 Microns (PM₁₀) Limitations [326 IAC 2-2] [326 IAC 2-8-4]

In order to render the 326 IAC 2-2 (PSD) and 326 IAC 2-7 (Part 70 Permit Program) requirements not applicable, PM10 emissions from the two Baghouses BH1 (controlling silos S-1 and S-2) and BH2 (controlling silos S3 and S4) shall not exceed the emissions limits listed in the table below:

Baghouse (Unit ID)	PM10 Emission Limit (lbs/hr)
Baghouse BH1 (S-1,S-2)	5.70
Baghouse BH2 (S-3,S-4)	5.70

Compliance with this limitation, combined with the potential to emit PM10 from other emission units at this source, shall limit the source-wide PTE of PM10, to less than 100 tons per twelve (12) consecutive month period and shall render the requirements of 326 IAC 2-2 and 326 IAC 2-7 not applicable.

D.1.3 Particulate Matter Less Than 2.5 Microns (PM_{2.5}) Limitations [326 IAC 2-1.1-5] [326 IAC 2-8-4]

In order to render the 326 IAC 2-1.1.-5 and 326 IAC 2-7 (Part 70 Permit Program) requirements not applicable, PM2.5 emissions from the two Baghouses BH1 (controlling silos S1 and S2) and BH2 (controlling silos S3 and S4) shall not exceed the emissions limits listed in the table below:

Baghouse (Unit ID)	PM2.5 Emission Limit (lbs/hr)
Baghouse BH1 (S-1,S-2)	5.70
Baghouse BH2 (S-3,S-4)	5.70

Compliance with these limits, combined with the potential to emit PM2.5 from all other emission units at this source, will limit the source wide combined total PM2.5 emissions to less than one hundred (100) tons per twelve (12) consecutive month period with compliance determined at the end of each month. Compliance with this limit renders the requirements of 326 IAC 2-1.1-5, and 326 IAC 2-7 not applicable.

D.1.4 Particulate Matter (PM) [326 IAC 6.5-1-2]

Pursuant to 326 IAC 6.5-1-2, the emission units: CM-01 through CM-3, S-1 through S-4, AG-1 through AG-9, C-1 through C-4, Kiln-1 and Kiln-2 shall not allow or permit discharge to the atmosphere of any gases which contain particulate matter in excess of 0.03 grain per dry standard cubic foot (dscf).

D.1.5 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan is required for the three (3) enclosed cement mixers, identified as CM-01 through CM-03; four (4) transfer conveyors, identified as C-1 through C-4; and the four (4) silos, identified as S-1 through S-4 and their control devices, identified as BH1 and BH2. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

Compliance Determination Requirements

D.1.6 Particulate Control

- (a) In order to comply with Conditions D.1.1, D.1.2, D.1.3, and D.1.4, the baghouses, identified as BH1 and BH2, for particulate control shall be in operation and control emissions at all times the silos are in operation.
- (b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) day or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify 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 result of any response actions take up to the time of notification.

Compliance Monitoring Requirements [326 IAC 2-8-4][326 IAC 2-8-5(a)(1)]

D.1.7 Visible Emissions Notations

- (a) Visible emission notations of the baghouses BH1 and BH2 exhausts shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable response steps. Section C- Response to Excursions or Exceedances contains the Permittee's obligation

D.1.8 Parametric Monitoring

The Permittee shall record the pressure drop across the baghouses (BH1 and BH2) used in conjunction with the Silos(S1 through S4) at least once per day when any Silo (S1 through S4) is in operation. When for any one reading, the pressure drop across the baghouses is outside the normal range of 1.0 to 6.0 inches of water or a range established during the last stack test, the Permittee shall take reasonable response. Section C - Response to Excursions and Exceedances contains the Permittee's obligation with regard to the reasonable response steps

required by this condition. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take reasonable steps shall be considered a deviation from this permit.

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

D.1.9 Broken or Failed Bag Detection

For a single compartment baghouses controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

- (a) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the line. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (b) Bag failure can be indicated by a significant drop in the baghouse's 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 2-8-4(3)]

D.1.10 Record Keeping Requirements

- (a) To document the compliance status with Condition D.1.8, the Permittee shall maintain daily records of the visible emission notations of the baghouses stack exhaust. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of a visible emission notation, (i.e. the process did not operate that day).
- (b) To document the compliance status with Condition D.1.9, the Permittee shall maintain daily records of the pressure drop across the baghouses controlling the Silos S-1 through S-4. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading, (i.e. the process did not operate that day).
- (c) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

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

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
CERTIFICATION**

Source Name: Rogers Group, Inc. Brick & Block, LLC
Source Address: 2301 Hawthorne Lane, Indianapolis, Indiana 46218
FESOP Permit No.: F097-29927-00590

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 AND ENFORCEMENT BRANCH
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
Phone: (317) 233-0178
Fax: (317) 233-6865**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
EMERGENCY OCCURRENCE REPORT**

Source Name: Rogers Group, Inc. Brick & Block, LLC
Source Address: 2301 Hawthorne Lane, Indianapolis, Indiana 46218
FESOP Permit No.: F097-29927-00590

This form consists of 2 pages

Page 1 of 2

- | |
|--|
| <p><input type="checkbox"/> This is an emergency as defined in 326 IAC 2-7-1(12)</p> <ul style="list-style-type: none">• The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and• The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16 |
|--|

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

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

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

Page 2 of 2

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency? Y N Describe:
Type of Pollutants Emitted: TSP, PM-10, SO 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: _____

**OFFICE OF AIR QUALITY
 COMPLIANCE AND ENFORCEMENT BRANCH
 FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
 QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Rogers Group, Inc. Brick & Block, LLC
 Source Address: 2301 Hawthorne Lane, Indianapolis, Indiana 46218
 FESOP Permit No.: F097-29927-00590

Months: _____ **to** _____ **Year:** _____

<p>This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements of this permit, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does 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 ΔNo deviations occurred this reporting period@.</p>	
<input type="checkbox"/> NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.	
<input type="checkbox"/> 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:	

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

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

Addendum to the Technical Support Document (ATSD) for a
Federally Enforceable State Operating Permit (FESOP)

Source Background and Description

Source Name:	Rogers Group, Inc. Brick & Block, LLC
Source Location:	2301 Hawthorne Lane, Indianapolis, Indiana 46218
County:	Marion (Warren Township)
SIC Code:	3271
Operation Permit No.:	F 097-29927-00590
Permit Reviewer:	Bruce Farrar

On April 9, 2011, the Office of Air Quality (OAQ) had a notice published in Indianapolis Star, Indianapolis, Indiana, stating that Rogers Group, Inc. Brick & Block, LLC had applied for a Federally Enforceable State Operating Permit (FESOP) to the transition of a SSOA to a FESOP. The notice also stated that the OAQ proposed to issue a Federally Enforceable State Operating Permit (FESOP) 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 or not this permit should be issued as proposed.

Comments and Responses

On April 14, 2011, Rogers Group, Inc. Brick & Block, LLC submitted comments to IDEM, OAQ on the draft Federally Enforceable State Operating Permit (FESOP).

The Technical Support Document (TSD) is used by IDEM, OAQ for historical purposes. IDEM, OAQ does not make any changes to the original TSD, but the Permit will have the updated changes. The comments and revised permit language are provided below with deleted language as ~~strikeouts~~ and new language **bolded**.

Comment 1:

The source has requested that condition D.1.7 Testing Requirement be removed. A stack test for particulate emissions for the baghouses is not needed because actual operation are approximately 40 minutes every other day.

Response to Comment 1:

IDEM agrees with the recommended changes, since actual operations are less than one hour every other day instead of continuous.. The permit has been revised as follows:

~~D.1.7 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11]~~

~~(a) Not later than 180 days after the issuance date of this permit, Permit No F097-29927-00590, the Permittee shall perform PM testing for the baghouse BH1 or BH2, in order to demonstrate compliance with Conditions D.1.1 and D.1.4, utilizing methods approved by the commissioner least once every five (5) years from the date of the most recent valid compliance demonstration. Testing will alternate between the baghouses BH1 and BH2. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's~~

~~obligation with regard to the performance testing required by this condition. PM includes filterable and condensable PM.~~

- ~~(b) Not later than 180 days after the issuance date of this permit, Permit No F097-29927-00590, the Permittee shall perform PM10 and PM2.5 testing for the baghouse BH1 or BH2, in order to demonstrate compliance with Conditions D.1.1 and D.1.4, utilizing methods approved by the commissioner least once every five (5) years from the date of the most recent valid compliance demonstration. Testing will alternate between the baghouses BH1 and BH2. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C — Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition. PM10 and PM2.5 includes filterable and condensable PM.~~

Additional Changes

IDEM, OAQ has decided to make additional revisions to the permit as described below, with deleted language as ~~strikeouts~~ and new language **bolded**.

Conditions D.1.8 through D.1.11 have been renumbered as shown below and the Table of contents has been updated to reflect these changes.

Compliance Monitoring Requirements [326 IAC 2-8-4][326 IAC 2-8-5(a)(1)]

D.1.87 Visible Emissions Notations

D.1.98 Parametric Monitoring

D.1.109 Broken or Failed Bag Detection

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

D.1.110 Record Keeping Requirements

IDEM Contact

- (a) Questions regarding this proposed Federally Enforceable State Operating Permit (FESOP) can be directed to Bruce Farrar at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 234-5401 or toll free at 1-800-451-6027 extension 4-5401.
- (b) A copy of the permit is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: www.idem.in.gov

Indiana Department of Environmental Management Office of Air Quality

Technical Support Document (TSD) for a Source Specific Operating Agreement (SSOA) Transitioning to a Federally Enforceable State Operating Permit (FESOP)

Source Description and Location

Source Name:	Rogers Group, Inc. Brick & Block, LLC
Source Location:	2301 Hawthorne Lane, Indianapolis, Indiana 46218
County:	Marion (Warren Township)
SIC Code:	3271
Operation Permit No.:	F 097-29927-00590
Permit Reviewer:	Bruce Farrar

On November 24, 2010, the Office of Air Quality (OAQ) received an application from Rogers Group, Inc. Brick & Block, LLC related to the transition of a SSOA to a FESOP, to reflect the correct permit for brick and block manufacturing operation. There are no new emission units involved in this transition.

Existing Approvals

The source has been operating under previous approvals including, but not limited to, the following:

- (a) SSOA Administrative Amendment No. 097-28207-00590, issued on July 16, 2009.
- (b) SSOA No. 097-23241-00590, issued on August 30, 2007.

Due to this application, the source is transitioning from a SSOA to a FESOP.

County Attainment Status

The source is located in Marion County.

Pollutant	Designation
SO ₂	Better than national standards.
CO	Attainment effective February 18, 2000, for the part of the city of Indianapolis bounded by 11 th Street on the north; Capitol Avenue on the west; Georgia Street on the south; and Delaware Street on the east. Unclassifiable or attainment effective November 15, 1990, for the remainder of Indianapolis and Marion County.
O ₃	Attainment effective November 8, 2007, for the 8-hour ozone standard. ¹
PM ₁₀	Unclassifiable effective November 15, 1990.
NO ₂	Cannot be classified or better than national standards.
Pb	Attainment effective July 10, 2000, for the part of Franklin Township bounded by Thompson Road on the south; Emerson Avenue on the west; Five Points Road on the east; and Troy Avenue on the north. Attainment effective July 10, 2000, for the part of Wayne Township bounded by Rockville Road on the north; Girls School Road on the east; Washington Street on the south; and Bridgeport Road on the west. The remainder of the county is not designated.

¹Attainment effective October 18, 2000, for the 1-hour ozone standard for the Indianapolis area, including Marion County, and is a maintenance area for the 1-hour ozone National Ambient Air Quality Standards (NAAQS) for purposes of 40 CFR 51, Subpart X*. The 1-hour designation was revoked effective June 15, 2005.

Basic nonattainment designation effective federally April 5, 2005, for PM_{2.5}.

- (a) **Ozone Standards**
Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to ozone. Marion County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (b) **PM_{2.5}**
Marion County has been classified as nonattainment for PM_{2.5} in 70 FR 943 dated January 5, 2005. On May 8, 2008, U.S. EPA promulgated specific New Source Review rules for PM_{2.5} emissions. These rules became effective on July 15, 2008. Therefore, direct PM_{2.5} and SO₂ emissions were reviewed pursuant to the requirements of Nonattainment New Source Review, 326 IAC 2-1.1-5. See the State Rule Applicability – Entire Source section.
- (c) **Other Criteria Pollutants**
Marion County has been classified as attainment or unclassifiable in Indiana for all other pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

Fugitive Emissions

Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2, 326 IAC 2-3, or 326 IAC 2-7, and there is no applicable New Source Performance Standard that was in effect on August 7, 1980, fugitive emissions are not counted toward the determination of PSD, Emission Offset, and Part 70 Permit applicability.

Background and Description of Permitted Emission Units

The Office of Air Quality (OAQ) has reviewed an application, submitted by Rogers Group, Inc. Brick & Block, LLC on November 24, 2010, relating to the transition of the source from a SSOA to a FESOP. Rogers Group, Inc. Brick & Block, LLC was issued a Source Specific Operating Agreement for a stationary ready-mix concrete batch operation on July 30, 2007. However, the source is not a ready-mix concrete batch operation, but a brick and block manufacturer. Therefore the source has submitted an application and a FESOP will be issued.

The source consists of the following permitted emission units:

Plant 1

- (a) One (1) enclosed cement mixer, identified as CM-01, constructed in 1971, with a capacity of 26 tons per hour, using no controls and exhausting outdoors.
- (b) Two (2) silos, identified as S-1 and S-2, constructed in 1971, with a storage capacity of 50 tons and 25 tons respectively, using a baghouse, identified as BH1, for particulate control and exhausting outdoors.
- (c) Five (5) aggregate storage, identified as AG-1 through AG-5, constructed in 1971, with a storage capacity of 50 tons each.
- (d) One (1) transfer conveyor (42 in X 100 ft), identified as C-1, constructed in 1971, with a capacity of 60 tons of aggregate per hour, using skirt boards for particulate control.
- (e) One (1) transfer conveyor (36 in X 500 ft), identified as C-2, constructed in 1971, with a capacity of 60 tons of aggregate per hour, using skirt boards for particulate control.

- (f) One (1) natural gas-fire kiln, identified as Kiln-1, constructed in 1971, with a rated capacity of 1.00 MMBtu/hr, using no controls and exhausting indoors.
- (g) One (1) block forming and cutting line, identified as Block 1, constructed in 1971, with a maximum capacity of 1,200 blocks per hour (38 lbs per block), using no controls, and exhausting indoors.

Plant 2

- (h) Two (2) enclosed cement mixers, identified as CM-02 and CM-03, with a capacity of 20 tons per hour, each, constructed in 1971, using no controls exhausting outdoors.
- (i) Two (2) silos, identified as S-3 and S-4, with a storage capacity of 50 tons and 35 tons respectively, constructed in 1971, using a baghouse, identified as BH2, for particulate control and exhausting outdoors.
- (j) Five (5) aggregate storage, identified as AG-6 through AG-9, with a storage capacity of 50 tons each, constructed in 1971.
- (k) One (1) transfer conveyor (36 in X 150 ft), identified as C-3, constructed in 1971, with a capacity of 60 tons of aggregate per hour, using skirt boards for particulate control.
- (l) One (1) transfer conveyor (36 in X 140 ft), identified as C-4, constructed in 1971, with a capacity of 60 tons of aggregate per hour, using skirt boards for particulate control.
- (m) One (1) natural gas-fire kiln, identified as Kiln-2, with a rated capacity of 1.00 MMBtu/hr, constructed in 1971, using no controls and exhausting indoors.
- (n) One (1) block forming and cutting line, identified as Block 2, constructed in 1971, with a maximum capacity of 1,200 blocks per hour (38 lbs per block), using no controls, and exhausting indoors.

Enforcement Issues

There are no pending enforcement actions related to this source.

Emission Calculations

The block forming and cutting lines, identified as Block 1 and Block 2, have negligible PM emissions because the cement is damp (4 to 5% moisture content) when it is formed and particulate is greater than one hundred (100) micrometers (μm).

The Natural Gas-fired Kilns emissions are from combustion only, not from process emissions. Blocks are usually cured at a temperature of 150-165°F in the Kiln.

See Appendix A of this TSD for detailed emission calculations.

Permit Level Determination – FESOP

The following table reflects the unlimited potential to emit (PTE) of the entire source before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Pollutant	Potential To Emit (tons/year)
PM	679.06
PM10 ⁽¹⁾	367.37
PM2.5	367.37
SO ₂	0.01
NO _x	0.88
VOC	0.05
CO	0.02

(1) Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant".

HAPs	Potential To Emit (tons/year)
Hexane	0.02
TOTAL HAPs	0.02

- (a) The potential to emit (PTE) (as defined in 326 IAC 2-7-1(29)) of PM10 and PM2.5 is greater than one hundred (100) tons per year. The PTE of all other regulated criteria pollutants are less than one hundred (100) tons per year. The source would have been subject to the provisions of 326 IAC 2-7. However, the source will be issued a Federally Enforceable State Operating Permit (FESOP) (326 IAC 2-8), because the source will limit emissions to less than the Title V major source threshold levels.
- (b) The potential to emit (PTE) (as defined in 326 IAC 2-7-1(29)) of any single HAP is less than ten (10) tons per year and the PTE of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA).

PTE of the Entire Source After Issuance of the FESOP

The table below summarizes the potential to emit of the entire source after issuance of this FESOP, reflecting all limits, of the emission units. Any control equipment is considered federally enforceable only after issuance of this FESOP, and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

Process/ Emission Unit	Potential To Emit of the Entire Source After Issuance of FESOP (tons/year)								
	PM	PM10	PM2.5	SO ₂	NO _x	VOC	CO	Total HAPs	Worst Single HAP
Transfer Conveyor/C-1	1.81	0.87	0.87	-	-	-	-	-	-
Transfer Conveyor/C-2	1.81	0.87	0.87	-	-	-	-	-	-
Transfer Conveyor/C-3	1.81	0.87	0.87	-	-	-	-	-	-
Transfer Conveyor/C-4	1.81	0.87	0.87	-	-	-	-	-	-
Silo Loading/S-1 (BH1)	35	25	25	-	-	-	-	-	-
Silo Loading/S-2 (BH1)				-	-	-	-	-	-

Process/ Emission Unit	Potential To Emit of the Entire Source After Issuance of FESOP (tons/year)								
	PM	PM10	PM2.5	SO ₂	NO _x	VOC	CO	Total HAPs	Worst Single HAP
Silo Loading/S-3 (BH2)	35	25	25	-	-	-	-	-	-
Silo Loading/S-4 (BH2)				-	-	-	-	-	-
Cement Mixer/CM-1	61.95	15.26	15.26	-	-	-	-	-	-
Cement Mixer/CM-2	47.65	11.74	11.74	-	-	-	-	-	-
Cement Mixer/CM-3	47.65	11.74	11.74	-	-	-	-	-	-
Aggregate Bins 1-9	2.06	0.72	0.72	-	-	-	-	-	-
Natural Gas Combustion (Kilns)	0.017	0.667	0.667	0.005	0.876	0.048	0.736	0.017	0.016
Aggregate Storage (AG-1 thru AG-9)	2.06	0.72	0.72	-	-	-	-	-	-
Unpaved Roads	7.90	2.01	2.01	-	-	-	-	-	-
Total PTE of Entire Source	244.49	95.01	95.01	.005	0.876	0.048	0.736	<25	<10
Title V Major Source Thresholds	NA	100	100	100	100	100	100	25	10
PSD Major Source Thresholds	250	250	N/A	250	250	250	250	NA	NA
Emission Offset/ Nonattainment NSR Major Source Thresholds	N/A	N/A	100	N/A	N/A	N/A	N/A	NA	NA
negl. = negligible * Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant".									

(a) FESOP Status

This existing source is not a Title V major stationary source, because the potential to emit criteria pollutants from the entire source will be limited to less than the Title V major source threshold levels. In addition, this existing source is not a major source of HAPs, as defined in 40 CFR 63.41, because the potential to emit HAPs is less than ten (10) tons per year for a single HAP and twenty-five (25) tons per year of total HAPs. Therefore, this source is an area source under Section 112 of the Clean Air Act and is subject to the provisions of 326 IAC 2-8 (FESOP).

In order to comply with the requirements of 326 IAC 2-8-4 (FESOP), the source shall comply with the following:

Baghouse (Unit ID)	PM10 Emission Limit (lbs/hr)	PM2.5 Emission Limit (lbs/hr)
Baghouse BH1 (S-1,S-2)	5.70	5.70
Baghouse BH2 (S-3,S-4)	5.70	5.70

Compliance with these limits, combined with the potential to emit PM10 and PM2.5 from all other emission units at this source, shall limit the source-wide total potential to emit of PM10 and PM2.5 to less than 100 tons per 12 consecutive month period, and shall render 326 IAC 2-7 (Part 70 Permits), 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)), and 326 IAC 2-1.1-5 (Nonattainment New Source Review), not applicable.

(b) PSD Minor Source

This existing source is not a major stationary source, under PSD (326 IAC 2-2), because the potential to emit PM is limited to less than 250 tons per year and the potential to emit all other attainment regulated pollutants are less than 250 tons per year, and this source is not one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(gg)(1). Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

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

Baghouse (Unit ID)	PM Emission Limit (lbs/hr)
Baghouse BH1 (S-1,S-2)	7.99
Baghouse BH2 (S-3,S-4)	7.99

Compliance with these limits, combined with the potential to emit PM from all other emission units at this source, shall limit the source-wide total potential to emit of PM to less than 250 tons per 12 consecutive month period and shall render 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

(d) Emission Offset Minor Source

This existing source is not a major stationary source, under 326 IAC 2-1.1-5 (Nonattainment New Source Review), because the potential to emit particulate matter with a diameter less than ten 2.5 micrometers (PM2.5), is limited to less than 100 tons per year. Therefore, pursuant to 326 IAC 2-1.1-5, the Nonattainment New Source Review requirements do not apply.

Baghouse (Unit ID)	PM2.5 Emission Limit (lbs/hr)
Baghouse BH1 (S-1,S-2)	5.70
Baghouse BH2 (S-3,S-4)	5.70

Federal Rule Applicability Determination

New Source Performance Standards (NSPS)

- (a) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in the permit.

National Emission Standards for Hazardous Air Pollutants (NESHAP)

- (b) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Brick and Structural Clay Products Manufacturing, 40 CFR 63.8380, Subpart JJJJJ (5J) (326 IAC 20-72), are not included in the permit, since this source is not a major source of HAPs.
- (c) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Clay Ceramics Manufacturing, 40 CFR 63.8530, Subpart KKKKK (5K), are not included in the permit, since this is not a major source of HAPs.

- (d) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Clay Ceramics Manufacturing Area Sources, 40 CFR 63.11435, Subpart RRRRRR (6R), are not included in the permit, since this source does not manufacture clay ceramic products.
- (e) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) included in the permit.

Compliance Assurance Monitoring (CAM)

- (f) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is not included in the permit, because the potential to emit of the source is limited to less than the Title V major source thresholds and the source is not required to obtain a Part 70 or Part 71 permit.

State Rule Applicability Determination

The following state rules are applicable to the source:

- (a) 326 IAC 1-7 (Stack Height Provisions)
The Silos: S-1, S-2, S-3 and S-4 are subject to 326 IAC 1-7 because each has the potential emissions of twenty-five (25) tons per year or more of PM.

Pursuant to 326 IAC 1-7, the Permittee shall comply with the applicable provisions of 326 IAC 1-7 for Silos: S-1, S-2, S-3 and S-4.
- (b) 326 IAC 2-8-4 (FESOP)
FESOP applicability is discussed under the PTE of the Entire Source After Issuance of the FESOP section above.
- (c) 326 IAC 2-2 (Prevention of Significant Deterioration(PSD))
PSD applicability is discussed under the PTE of the Entire Source After Issuance of the FESOP section above.
- (d) 326 IAC 2-3 (Emission Offset) and 326 IAC 2-1.1-5 (Nonattainment New Source Review)
Emission Offset and Nonattainment New Source Review applicability is discussed under the PTE of the Entire Source After Issuance of the FESOP section above.
- (e) 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))
This source is not subject to the requirements of 326 IAC 2-4.1, since the unlimited potential to emit of HAPs from the source is less than ten (10) tons per year for any single HAP and less than twenty-five (25) tons per year of a combination of HAPs.
- (f) 326 IAC 2-6 (Emission Reporting)
Pursuant to 326 IAC 2-6-1, this source is not subject to this rule, because it is not required to have an operating permit under 326 IAC 2-7 (Part 70), it is not located in Lake, Porter, or LaPorte County, and it does not emit lead into the ambient air at levels equal to or greater than 5 tons per year. Therefore, 326 IAC 2-6 does not apply.
- (g) 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 Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:
 - (1) Opacity shall not exceed an average of thirty percent (30%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

- (2) 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.
- (h) 326 IAC 6-4 (Fugitive Dust Emissions Limitations)
Pursuant to 326 IAC 6-4 (Fugitive Dust Emissions Limitations), the source 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.
- (i) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
The source is not subject to the requirements of 326 IAC 6-3-2

Cement Mixers: CM-01, CM-02, CM-03

- (j) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
Pursuant to 326 IAC 6-3-2(c)(3) (Particulate Emission Limitations for Manufacturing Processes), the source is not subject to 326 IAC 6-3-2, because 326 IAC 6.5-1-2 applies.
- (k) 326 IAC 6.5 PM (Limitations Except Lake County)
This source is subject to 326 IAC 6.5 because it is located in Marion County, its PM PTE (or limited PM PTE) is equal to or greater than 100 tons/year or actual emissions are greater than 10 tons/year. However, this source is not one of the sources specifically listed in 326 IAC 6.5-2 through 326 IAC 6.5-10. Therefore, 326 IAC 6.5-1-2(a) applies. PM emissions shall not exceed seven-hundredths (0.07) gram per dry standard cubic meter (g/dscm) (three-hundredths (0.03) grain per dry standard cubic foot (dscf))
- (l) There are no 326 IAC 8 Rules that are applicable to the facility.

Silos: S-1, S-2, S-3, S-4

- (m) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
Pursuant to 326 IAC 6-3-2(c)(3) (Particulate Emission Limitations for Manufacturing Processes), the source is not subject to 326 IAC 6-3-2, because 326 IAC 6.5-1-2 applies.
- (n) 326 IAC 6.5 PM (Limitations Except Lake County)
This source is subject to 326 IAC 6.5 because it is located in Marion County, its PM PTE (or limited PM PTE) is equal to or greater than 100 tons/year or actual emissions are greater than 10 tons/year. However, this source is not one of the sources specifically listed in 326 IAC 6.5-2 through 326 IAC 6.5-10. Therefore, 326 IAC 6.5-1-2(a) applies. PM emissions shall not exceed seven-hundredths (0.07) gram per dry standard cubic meter (g/dscm) (three-hundredths (0.03) grain per dry standard cubic foot (dscf))
- (o) There are no 326 IAC 8 Rules that are applicable to the facility.

Aggregate Storage: AG-1, AG-2, AG-3, AG-4, AG-5, AG-6, AG-7, AG-8, AG-9

- (p) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
Pursuant to 326 IAC 6-3-2(c)(3) (Particulate Emission Limitations for Manufacturing Processes), the source is not subject to 326 IAC 6-3-2, because 326 IAC 6.5-1-2 applies.
- (q) 326 IAC 6.5 PM (Limitations Except Lake County)
This source is subject to 326 IAC 6.5 because it is located in Marion County, its PM PTE (or limited PM PTE) is equal to or greater than 100 tons/year or actual emissions are greater than 10 tons/year. However, this source is not one of the sources specifically listed in 326 IAC 6.5-2

through 326 IAC 6.5-10. Therefore, 326 IAC 6.5-1-2(a) applies. PM emissions shall not exceed seven-hundredths (0.07) gram per dry standard cubic meter (g/dscm) (three-hundredths (0.03) grain per dry standard cubic foot (dscf))

- (r) There are no 326 IAC 8 Rules that are applicable to the facility.

Transfer Conveyors: C-1, C-2, C-3, C-4

- (s) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
Pursuant to 326 IAC 6-3-2(c)(3) (Particulate Emission Limitations for Manufacturing Processes), the source is not subject to this rule because 326 IAC 6.5-1-2 applies.
- (t) 326 IAC 6.5 PM (Limitations Except Lake County)
This source is subject to 326 IAC 6.5 because it is located in Marion County, its PM PTE (or limited PM PTE) is equal to or greater than 100 tons/year or actual emissions are greater than 10 tons/year. However, this source is not one of the sources specifically listed in 326 IAC 6.5-2 through 326 IAC 6.5-10. Therefore, 326 IAC 6.5-1-2(a) applies. PM emissions shall not exceed seven-hundredths (0.07) gram per dry standard cubic meter (g/dscm) (three-hundredths (0.03) grain per dry standard cubic foot (dscf))
- (u) There are no 326 IAC 8 Rules that are applicable to the facility.

Natural Gas-Fire Kilns: Kiln-1 and Kiln-2

- (v) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
Pursuant to 326 IAC 6-3-2(b)(1) (Particulate Emission Limitations for Manufacturing Processes), the Kilns are not subject to this rule because they provide indirect heating.
- (w) 326 IAC 6.5 PM (Limitations Except Lake County)
This source is subject to 326 IAC 6.5 because it is located in Marion County, its PM PTE (or limited PM PTE) is equal to or greater than 100 tons/year or actual emissions are greater than 10 tons/year. However, this source is not one of the sources specifically listed in 326 IAC 6.5-2 through 326 IAC 6.5-10. Therefore, 326 IAC 6.5-1-2(a) applies. PM emissions shall not exceed seven-hundredths (0.07) gram per dry standard cubic meter (g/dscm) (three-hundredths (0.03) grain per dry standard cubic foot (dscf))
- (x) 326 IAC 7-1.1-1 (Sulfur Dioxide Emission Limitations)
Pursuant to 326 IAC 7-1.1-1(1) the Kilns are not subject to this rule because their PTE for Sulfur Dioxide is less than 25 tons per year and 10 pounds per hour.
- (y) There are no 326 IAC 8 Rules that are applicable to the facility.

Block Forming and Cutting Lines: Block 1, Block 2.

- (z) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
Pursuant to 326 IAC 6-3-2(c)(3) (Particulate Emission Limitations for Manufacturing Processes), the source is not subject to this rule because 326 IAC 6.5-1-2 applies.
- (aa) 326 IAC 6.5 PM (Limitations Except Lake County)
Pursuant to 326 IAC 1-2-52, the block forming and cutting lines, identified as Block 1 and Block 2, are not subject to this rule, because their particulate emissions are greater than one hundred (100) micrometers (μm).
- (bb) There are no 326 IAC 8 Rules that are applicable to the facility.

Compliance Determination, Monitoring and Testing Requirements

- (a) The compliance determination and monitoring requirements applicable to this source are as follows:

Emission Unit/Control	Operating Parameters	Frequency
Baghouse BH1 and BH2	Pressure Drop	Once per day
Baghouse BH1 and BH2	Visible notation	Once per day

- (b) The testing requirements applicable to this source are as follows:

Testing Requirements				
Emission Unit	Control Device	Pollutant	Timeframe for Testing	Frequency of Testing
Silos S-1 and S-2	Baghouse BH1	PM/PM10/PM2.5	180 days for BH1 or BH2	Once every 5 years
Silos S-3 and S-4	Baghouse BH2	PM/PM10/PM2.5		

This testing condition is necessary because the baghouses for the Silos, S-1, S-2, S-3 and S-4, must operate properly to ensure compliance with 326 IAC 2-8 (FESOP) and to render 326 IAC 2-2 and 326 IAC 2-1.1-5 not applicable.

Conclusion and Recommendation

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant. An application for the purposes of this review was received on November 24, 2010.

The operation of this source shall be subject to the conditions of the attached proposed FESOP No. 097-29927-00590. The staff recommends to the Commissioner that this FESOP be approved.

IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Bruce Farrar at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 234-5401 or toll free at 1-800-451-6027 extension 4-5401.
- (b) A copy of the findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: www.in.gov/idem

Appendix A: Emission Calculations

Company Name: Rogers Group, Inc. Brick & Block, LLC
Address City IN Zip: 2301 Hawthorne Lane, Indianapolis, IN 46218
Permit Number/Plt ID: F097-29927-00590
Plant ID: 097-00590
Reviewer: Bruce Farrar
Date: November 24, 2010

Uncontrolled Potential Emissions (tons/year)							
Emissions Units							
Pollutant	Transfer Conveyor	Silo Loading	Cement Mixing	Storage Piles	Unpaved Roads	Natural Gas combustion	TOTAL
PM	7.25	504.58	157.26	2.06	7.90	0.017	679.06
PM10	3.47	322.37	38.74	0.72	2.01	0.067	367.37
PM2.5	3.47	322.37	38.74	0.72	2.01	0.067	367.37
SO2	-	-	-	-	-	0.005	0.005
NOx	-	-	-	-	-	0.876	0.876
VOC	-	-	-	-	-	0.048	0.048
CO	-	-	-	-	-	0.736	0.736
total HAPs	-	-	-	-	-	0.017	0.017
Single HAP	-	-	-	-	-	0.016	
						Hexane	

Limited Emissions (tons/year)							
Emissions Units							
Pollutant	Transfer Conveyor	Silo Loading	Cement Mixing	Storage Piles	Unpaved Roads	Natural Gas combustion	TOTAL
PM	7.25	70.00	157.26	2.06	7.90	0.017	244.49
PM10	3.47	50.00	38.74	0.72	2.01	0.067	95.01
PM2.5	3.47	50.00	38.74	0.72	2.01	0.067	95.01
SO2	-	-	-	-	-	0.005	0.005
NOx	-	-	-	-	-	0.876	0.876
VOC	-	-	-	-	-	0.048	0.048
CO	-	-	-	-	-	0.736	0.736
total HAPs	-	-	-	-	-	0.017	0.017
Single HAP	-	-	-	-	-	0.016	
						Hexane	

**Appendix A: Emissions Calculations
Transfer Conveyor**

Company Name: Rogers Group, Inc. Brick & Block, LLC
Address City IN Zip: 2301 Hawthorne Lane, Indianapolis, IN 46218
Permit Number: F097-29927-00590
Pit ID: 097-00590
Reviewer: Bruce Farrar
Date: November 24, 2010

Uncontrolled Emissions							
Emission Unit/Identification	PM Emission Factor (lbs/ton) ¹	PM10 Emission Factor (lbs/hr) ¹	Throughput (tons/hour)	lbs/hour		tons/year	
				PM Emissions	PM10 Emissions	PM Emissions	PM10 Emissions
Transfer Conveyor/C-1	0.0069	0.0033	60	0.414	0.198	1.81	0.87
Transfer Conveyor/C-2	0.0069	0.0033	60	0.414	0.198	1.81	0.87
Transfer Conveyor/C-3	0.0069	0.0033	60	0.414	0.198	1.81	0.87
Transfer Conveyor/C-4	0.0069	0.0033	60	0.414	0.198	1.81	0.87
Total:				1.66	0.79	7.25	3.47

Using skit boards for Control with efficiency of 50%: 3.63 1.73

Assume PM10 = PM2.5

1. PM emission factor from AP-42, Chapter 11.12 Concrete Batching, Table 11.12-2 (updated June 2006) SCC 3-05-011-23

METHODOLOGY

PM/PM10 Emissions (lbs/hr) = PM/PM10 EF (lbs/ton) * Process weight (tons/hour)

PM/PM10 Emissions (tons/yr) = PM/PM10 EF (lbs/ton) * Process weight (tons/hour) * 8760 hrs/yr * 1 ton/2000 lbs

**Appendix A: Emissions Calculations
Silo Loading**

Company Name: Rogers Group, Inc. Brick & Block, LLC
Address City IN Zip: 2301 Hawthorne Lane, Indianapolis, IN 46218
Permit Number: F097-29927-00590
Plt ID: 097-00590
Reviewer: Bruce Farrar
Date: November 24, 2010

Uncontrolled Emissions							
Emission Unit/Identification	PM Emission Factor (lbs/ton) ¹	PM10 Emission Factor (lbs/hr) ¹	Throughput (tons/hour)	lbs/hour		tons/year	
				PM Emissions	PM10 Emissions	PM Emissions	PM10 Emissions
Silo/S-1 (Baghouse BH1)	0.72	0.46	50	36	23	157.68	100.74
Silo/S-2 (Baghouse BH1)	0.72	0.46	25	18	11.5	78.84	50.37
Silo/S-3 (Baghouse BH2)	0.72	0.46	50	36	23	157.68	100.74
Silo/S-4 (Baghouse BH2)	0.72	0.46	35	25.2	16.1	110.38	70.52
Total:				115.20	73.60	504.58	322.37
Baghouse (BH1) Control Efficiency 99.5%:				0.27	0.17	1.18	0.76
Baghouse (BH2) Control Efficiency 99.5%:				0.31	0.20	1.34	0.86

Controlled Emissions							
Emission Unit/Identification	Title V/PSD Limits (ton/yr)	Uncontrolled Emissions from Entire Source (tons/yr)	Uncontrolled Silo Emissions (tons/yr)	Total Uncontrolled Emissions (excluding Silo emissions) ² (ton/yr)	Allowable Emissions to be FESOP	Allowable Silos Emissions (ton/yr)	Allowable Silo Emissions (lb/hr)
PM	250	679.06	504.58	174.49	75.51	70	15.98
PM10/PM2.5	100	367.37	322.37	45.01	54.99	50	11.42

Assume PM10 = PM2.5

1. PM and PM10 emission factors from AP-42, Chapter 11.12 Concrete Batching, Table 11.12-2 (updated June 2006) SCC 3-05-011-07
2. Total uncontrolled emissions excludes emissions from Silos (504.58 tons/year), but includes uncontrolled emissions from all other sources (679.06 - 504.58 = 174.48). This limits the source to below Title V and PSD limits and allows the source to be a FESOP.

METHODOLOGY

PM/PM10 Emissions (lbs/hr) = PM/PM10 EF (lbs/ton) * throughput (tons/hour)
 PM/PM10 Emissions (tons/yr) = PM/PM10 EF (lbs/ton) * throughput (tons/hour) * 8760 hrs/yr * 1 ton/2000 lbs
 Controlled PM/PM10 Emissions (tons/yr) = PM/PM10 EF (lbs/ton) * throughput (tons/hour) * (1-.995) * 8760 hrs/yr * 1 ton/2000 lbs

Controlled Emissions

PM ton/yr = PM Title V limit - Source PM PTE w/o Silos
 PM10 ton/yr = PM10 PSD limit - Source PM10 PTE w/o Silos
 Allowable FESOP Emissions =
 PM lb/hr limit = PM ton/yr limit * (8760 hr/yr) * (1 ton/2000 lb)
 PM10 lb/hr limit = PM10 ton/yr limit * (8760 hr/yr) * (1 ton/2000 lb)

**Appendix A: Emissions Calculations
Cement Mixing**

Company Name: Rogers Group, Inc. Brick & Block, LLC
Address City IN Zip: 2301 Hawthorne Lane, Indianapolis, IN 46218
Permit Number: F097-29927-00590
Pit ID: 097-00590
Reviewer: Bruce Farrar
Date: November 24, 2010

Uncontrolled Emissions							
Emission Unit/Identification	PM Emission Factor (lbs/ton) ¹	PM10 Emission Factor (lbs/hr) ¹	Throughput (tons/hour)	lbs/hour		tons/year	
				PM Emissions	PM10 Emissions	PM Emissions	PM10 Emissions
Cement Mixer/CM-1	0.544	0.134	26	14.144	3.484	61.95	15.26
Cement Mixer/CM-2	0.544	0.134	20	10.88	2.68	47.65	11.74
Cement Mixer/CM-3	0.544	0.134	20	10.88	2.68	47.65	11.74
Total:				35.90	8.84	157.26	38.74

Wet Suppression Control Efficiency 50%: 78.63 19.37

Assume PM10 = PM2.5

1. PM emission factor from AP-42, Chapter 11.12 Concrete Batching, Table 11.12-2 (updated June 2006) SCC 3-05-011-11

METHODOLOGY

PM/PM10 Emissions (lbs/hr) = PM/PM10 EF (lbs/ton) * Process weight (tons/hour)

PM/PM10 Emissions (tons/yr) = PM/PM10 EF (lbs/ton) * Process weight (tons/hour) * 8760 hrs/yr * 1 ton/2000 lbs

**Appendix A: Emissions Calculations
Material Storage Piles**

Company Name: Rogers Group, Inc. Brick & Block, LLC
Address City IN Zip: 2301 Hawthorne Lane, Indianapolis, IN 46218
Permit Number: F097-29927-00590
Plt ID: 097-00590
Reviewer: Bruce Farrar
Date: November 24, 2010

The following calculations determine the amount of emissions created by wind erosion of storage stockpiles, based on 8,760 hours of use and USEPA's AP-42 (Pre 1983 Edition), Section 11.2.3 Aggregate Storage Piles.

$E_f = 1.7 \cdot (s/1.5) \cdot (365-p) / 235 \cdot (f/15)$ <p>where E_f = emission factor (lb/acre/day) s = silt content (wt %) p = 125 days of rain greater than or equal to 0.01 inches f = 15% of wind greater than or equal to 12 mph</p>
--

Material	Silt Content (wt %) ^a	Emission Factor (lb/acre/day)	Maximum Anticipated Pile Size (acres)	Unlimited PTE of PM (tons/yr)	Unlimited PTE of PM10 (tons/yr)
Sand	2.6	3.01	3.75	2.060	0.721
Totals				2.06	0.72

Methodology

Limited PTE of PM (tons/yr) = [Emission Factor (lb/acre/day)] * [Maximum Pile Size (acres)] * (ton/2000 lbs) * (8760 hours/yr)

Limited PTE of PM10 (tons/yr) = [Potential PM Emissions (tons/yr)] * 35%

^a Silt content values obtained from AP-42, Chapter 13.2.4 Aggregate Handling and Storage Piles, Table 13.2.4-1 (dated 1/95)

Abbreviations

PM = Particulate Matter
 PM10 = Particulate Matter (<10 um)
 PTE = Potential to Emit

**Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100**

Company Name: Rogers Group, Inc. Brick & Block, LLC
Address City IN Zip: 2301 Hawthorne Lane, Indianapolis, IN 46218
Permit Number: F097-29927-00590
Plt ID: 097-00590
Reviewer: Bruce Farrar
Date: November 24, 2010

Heat Input Capacity
MMBtu/hr

Potential Throughput
MMCF/yr

2.0

17.5

Emission Factor in lb/MMCF	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
	1.9	7.6	0.6	100	5.5	84
				**see below		
Potential Emission in tons/yr	0.017	0.067	0.005	0.876	0.048	0.736

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.

**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

See page 7 for HAPs emissions calculations.

Appendix A: Emissions Calculations

Natural Gas Combustion Only

MM BTU/HR <100

HAPs Emissions

Company Name: Rogers Group, Inc. Brick & Block, LLC

Address City IN Zip: 2301 Hawthorne Lane, Indianapolis, IN 46218

Permit Number: F097-29927-00590

Plt ID: 097-00590

Reviewer: Bruce Farrar

Date: November 24, 2010

HAPs - Organics					
Emission Factor in lb/MMcf	Benzene 2.1E-03	Dichlorobenzene 1.2E-03	Formaldehyde 7.5E-02	Hexane 1.8E+00	Toluene 3.4E-03
Potential Emission in tons/yr	1.840E-05	1.051E-05	6.570E-04	1.577E-02	2.978E-05

HAPs - Metals					
Emission Factor in lb/MMcf	Lead 5.0E-04	Cadmium 1.1E-03	Chromium 1.4E-03	Manganese 3.8E-04	Nickel 2.1E-03
Potential Emission in tons/yr	4.380E-06	9.636E-06	1.226E-05	3.329E-06	1.840E-05

Methodology is the same as page 6.

The five highest organic and metal HAPs emission factors are provided above.
Additional HAPs emission factors are available in AP-42, Chapter 1.4.

**Appendix A: Emission Calculations
Fugitive Dust Emissions - Unpaved Roads**

Company Name: Rogers Group, Inc. Brick & Block, LLC
Address City IN Zip: 2301 Hawthorne Lane, Indianapolis, IN 46218
Permit Number: F097-29927-00590
Pit ID: 097-00590
Reviewer: Bruce Farrar
Date: November 24, 2010

The following calculations determine the amount of emissions created by unpaved roads, based on 8,760 hours of use and AP-42, Ch 13.2.2, Unpaved Roads (11/2006).

Vehicle Information (provided by source)

Type	Maximum number of vehicles	Number of one-way trips per day per vehicle	Maximum trips per day (trip/day)	Maximum Weight Loaded (tons/trip)	Total Weight driven per day (ton/day)	Maximum one-way distance (feet/trip)	Maximum one-way distance (mi/trip)	Maximum one-way miles (miles/day)	Maximum one-way miles (miles/yr)
Vehicle (entering plant) (one-way trip)	1.0	1.0	42.7	24.0	1024.8	264	0.050	2.1	779.3
Vehicle (leaving plant) (one-way trip)	1.0	1.0	42.7	24.0	1024.8	264	0.050	2.1	779.3
Front end loader	1.0	1.0	256.4	4.0	1025.6	26	0.005	1.3	467.9
Total			341.8		3075.2			5.6	2026.5

Average Vehicle Weight Per Trip = $\frac{9.0}{0.02}$ tons/trip
 Average Miles Per Trip = $\frac{9.0}{0.02}$ miles/trip

Unmitigated Emission Factor, $E_f = k \cdot [(s/12)^a] \cdot [(W/3)^b]$ (Equation 1a from AP-42 13.2.2)

	PM	PM10	PM2.5	
where k =	4.9	1.5	1.5	lb/mi = particle size multiplier (AP-42 Table 13.2.2-2 for Industrial Roads)
s =	4.8	4.8	4.8	% = mean % silt content of unpaved roads (AP-42 Table 13.2.2-1 Sand/Gravel Processing Plant)
a =	0.7	0.9	0.9	= constant (AP-42 Table 13.2.2-2 for Industrial Roads)
W =	35.0	35.0	35.0	tons = average vehicle weight (provided by source)
b =	0.45	0.45	0.45	= constant (AP-42 Table 13.2.2-2 for Industrial Roads)

Taking natural mitigation due to precipitation into consideration, Mitigated Emission Factor, $E_{ext} = E \cdot [(365 - P)/365]$ (Equation 2 from AP-42 13.2.2)

Mitigated Emission Factor, $E_{ext} = E \cdot [(365 - P)/365]$

where P = 125 days of rain greater than or equal to 0.01 inches (see Fig. 13.2.2-1)

	PM	PM10	PM2.5	
Unmitigated Emission Factor, E_f =	7.79	1.99	1.99	lb/mile
Mitigated Emission Factor, E_{ext} =	5.12	1.31	1.31	lb/mile
Dust Control Efficiency =	50%	50%	50%	(pursuant to control measures outlined in fugitive dust control plan)

Process	Unmitigated PTE of PM (tons/yr)	Unmitigated PTE of PM10 (tons/yr)	Unmitigated PTE of PM2.5 (tons/yr)	Mitigated PTE of PM (tons/yr)	Mitigated PTE of PM10 (tons/yr)	Mitigated PTE of PM2.5 (tons/yr)	Controlled PTE of PM (tons/yr)	Controlled PTE of PM10 (tons/yr)	Controlled PTE of PM2.5 (tons/yr)
Vehicle (entering plant) (one-way trip)	3.04	0.77	0.77	2.00	0.51	0.51	1.00	0.25	0.25
Vehicle (leaving plant) (one-way trip)	3.04	0.77	0.77	2.00	0.51	0.51	1.00	0.25	0.25
Front end loader	1.82	0.46	0.46	1.20	0.31	0.31	0.60	0.15	0.15
Total	7.90	2.01	2.01	5.19	1.32	1.32	2.60	0.66	0.66

Methodology

Total Weight driven per day (ton/day) = [Maximum Weight Loaded (tons/trip)] * [Maximum trips per day (trip/day)]
 Maximum one-way distance (mi/trip) = [Maximum one-way distance (feet/trip)] / [5280 ft/mile]
 Maximum one-way miles (miles/day) = [Maximum trips per day (trip/day)] * [Maximum one-way distance (mi/trip)]
 Average Vehicle Weight Per Trip (ton/trip) = SUM[Total Weight driven per day (ton/day)] / SUM[Maximum trips per day (trip/day)]
 Average Miles Per Trip (miles/trip) = SUM[Maximum one-way miles (miles/day)] / SUM[Maximum trips per day (trip/day)]
 Unmitigated PTE (tons/yr) = (Maximum one-way miles (miles/yr)) * (Unmitigated Emission Factor (lb/mile)) * (ton/2000 lbs)
 Mitigated PTE (tons/yr) = (Maximum one-way miles (miles/yr)) * (Mitigated Emission Factor (lb/mile)) * (ton/2000 lbs)
 Controlled PTE (tons/yr) = (Mitigated PTE (tons/yr)) * (1 - Dust Control Efficiency)

Abbreviations

PM = Particulate Matter
 PM10 = Particulate Matter (<10 um)
 PM2.5 = Particulate Matter (<2.5 um)
 PTE = Potential to Emit



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

SENT VIA U.S. MAIL: CONFIRMED DELIVERY AND SIGNATURE REQUESTED

TO: John Frazzini
Rogers Group, Inc
Brick & Block, LLC
P.O. Box 19783
Indianapolis, IN 46219

DATE: May 11, 2011

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

SUBJECT: Final Decision
FESOP
097-29927-00590

Enclosed is the final decision and supporting materials for the air permit application referenced above. Please note that this packet contains the original, signed, permit documents.

The final decision is being sent to you because our records indicate that you are the contact person for this application. However, if you are not the appropriate person within your company to receive this document, please forward it to the correct person.

A copy of the final decision and supporting materials has also been sent via standard mail to:
Van Medlock (Environmental Manager)
OAQ Permits Branch Interested Parties List

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178, or toll-free at 1-800-451-6027 (ext. 3-0178), and ask to speak to the permit reviewer who prepared the permit. If you think you have received this document in error, please contact Joanne Smiddie-Brush of my staff at 1-800-451-6027 (ext 3-0185), or via e-mail at jbrush@idem.IN.gov.

Final Applicant Cover letter.dot 11/30/07



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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May 11, 2011

TO: Warren Library

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

Subject: **Important Information for Display Regarding a Final Determination**

Applicant Name: Rogers Group, Inc – Brick & Block, LLC
Permit Number: 097-29927-00590

You previously received information to make available to the public during the public comment period of a draft permit. Enclosed is a copy of the final decision and supporting materials for the same project. Please place the enclosed information along with the information you previously received. To ensure that your patrons have ample opportunity to review the enclosed permit, **we ask that you retain this document for at least 60 days.**

The applicant is responsible for placing a copy of the application in your library. If the permit application is not on file, or if you have any questions concerning this public review process, please contact Joanne Smiddie-Brush, OAQ Permits Administration Section at 1-800-451-6027, extension 3-0185.

Enclosures
Final Library.dot 11/30/07



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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May 11, 2011

TO: Marion County Public Library – Info Zone

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

Subject: **Important Information for Display Regarding a Final Determination**

Applicant Name: Rogers Group, Inc – Brick & Block, LLC
Permit Number: 097-29927-00590

You previously received information to make available to the public during the public comment period of a draft permit. Enclosed is a copy of the final decision and supporting materials for the same project. Please place the enclosed information along with the information you previously received. To ensure that your patrons have ample opportunity to review the enclosed permit, **we ask that you retain this document for at least 60 days.**

The applicant is responsible for placing a copy of the application in your library. If the permit application is not on file, or if you have any questions concerning this public review process, please contact Joanne Smiddie-Brush, OAQ Permits Administration Section at 1-800-451-6027, extension 3-0185.

Enclosures
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2		Van Medlock Env. Mgr Rogers Brick & Block, LLC 421 Great Circle Rd Nashville TN 37202-5250 (RO CAATS)										
3		Marion County Health Department 3838 N, Rural St Indianapolis IN 46205-2930 (Health Department)										
4		Mrs. Sandra Lee Watson 7834 E 100 S Marion IN 46953 (Affected Party)										
5		Indianapolis City Council and Mayors Office 200 East Washington Street, Room E Indianapolis IN 46204 (Local Official)										
6		Marion County Commissioners 200 E. Washington St. City County Bldg., Suite 801 Indianapolis IN 46204 (Local Official)										
7		Ms. Kathy Watson 8204 Claridge Rd Indianapolis IN 46260 (Affected Party)										
8		Matt Mosier Office of Sustainability 2700 South Belmont Ave. Administration Bldg. Indianapolis IN 46221 (Local Official)										
9		Warren Library 9701 E 21st Street Indianapolis IN 46229 (Library)										
10		Mark Zeltwanger 26545 CR 52 Nappanee IN 46550 (Affected Party)										
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