



Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant
DATE: September 7, 2006
RE: The StoneCor Group, Inc. / 003-19431-000217
FROM: Nisha Sizemore
Chief, Permits Branch
Office of Air Quality

Notice of Decision: Approval - Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-15-5-3, 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, Room 1049, 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.dot 03/23/06



Mitchell E. Daniels, Jr.
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 Commissioner

100 North Senate Avenue
 Indianapolis, Indiana 46204-2251
 (317) 232-8603
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FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) RENEWAL OFFICE OF AIR QUALITY

**The StonCor Group, Inc.
 1310 Dividend Road
 Fort Wayne, Indiana 46808**

(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 provision of this permit is grounds for enforcement action; permit termination, revocation and reissuance, or modification; and 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.

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.

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.

| | |
|--|------------------------------------|
| Operation Permit No.: F 003-19431-00217 | |
| Issued by: Origin signed by | Issuance Date: September 7, 2006 |
| Nisha Sizemore, Chief Permits Branch Office of Air Quality | Expiration Date: September 7, 2011 |
| | |

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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 colored sand blending and bagging source.

| | |
|-------------------------|--|
| Authorized Individual: | President |
| Source Address: | 1310 Dividend Road, Fort Wayne, Indiana 46808 |
| Mailing Address: | 1310 Dividend Road, Fort Wayne, Indiana 46808 |
| General Source Phone: | 856-779-7500 |
| SIC Code: | 3272 |
| Source Location Status: | Allen |
| | Basic Nonattainment for 8-hour Ozone |
| | Attainment for all other criteria pollutants |
| Source Status: | Federally Enforceable State Operating Permit (FESOP) |
| | Minor Source, under PSD and Emission Offset Rules |
| | Minor Source, Section 112 of the Clean Air Act |

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:

Stonclad Process

- (a) Three (3) silos, identified as EU #1 (silos 1 - 3), pneumatic transfer, equipped with a baghouse dust collector, identified as Baghouse #1, installed prior to 1982, exhausted through Stack 1, storage capacities: 210, 151 and 150 tons of sand, respectively, throughput capacities: 9,000, 11,000 and 3,500 pounds of sand per hour, respectively.
- (b) Two (2) silos, identified as EU #2 (silos 4 & 5), pneumatic transfer, each equipped with a baghouse dust collector, identified as Baghouse #2, installed in 1982, exhausted through Stack 2, storage capacities: 70, and 46 tons of sand, respectively, throughput capacities: 800 and 300 pounds of sand per hour, respectively.
- (c) One (1) sand feed chute, identified as EU #3, equipped with polyester felt bag for particulate matter control, installed in 1982, exhausted through Stack 3, storage capacity: 500 pounds of sand, throughput capacity: 17,000 pounds of sand per hour.
- (d) One (1) Stonclad blender, identified as EU #4, pneumatic transfer, equipped with baghouse dust collector, identified as Baghouse #4, installed in 1982, exhausted through Stack 4, storage capacity: 5,000 pounds per hour, throughput capacity: 17,000 pounds of sand per hour.
- (e) One (1) Stonclad bagger and receiving bin, identified as EU #5, pneumatic transfer, equipped with the Central Dust Collector and a baghouse dust collector, identified as Baghouse #5, respectively, installed in 1987, exhausted through Stacks 10 and 5, storage capacity: 22 tons of sand, throughput capacity: 17,000 pounds of sand per hour.

Stonblend/Stonshield Coating Process

- (f) One (1) Forburg receiving bin, identified as EU #6, pneumatic transfer, equipped with baghouse dust collector, identified as Baghouse #6, installed in 1987, exhausted through Stack 6, storage capacity: 1.2 tons of sand, throughput capacity: 9,000 pounds of sand per hour.
- (g) One (1) tote fill station, identified as EU #7, pneumatic transfer, equipped with baghouse dust collector for conveying, identified as Baghouse #7, and the Central Dust Collector for filling, installed in 1987, exhausted through Stacks 7 and 10, storage capacity: 1.2 tons of sand, throughput capacity: 9,000 pounds of sand per hour.
- (h) One (1) Stonsheild bagger and receiving bin, identified as EU #8, pneumatic transfer, equipped with the Central Dust Collector and a baghouse dust collector, identified as Baghouse #8, respectively, installed in 1987, exhausted through Stacks 10 and 8, storage capacity: 3.2 tons of sand, capacity: 19,152 pounds of sand per hour.
- (i) One (1) white silo, identified as EU #9, pneumatic transfer, equipped with the Stonsheild Central Dust Collector, installed in 1987, exhausted through Stack 9, storage capacity: 52 tons of sand, throughput capacity: 7,000 pounds of sand per hour.
- (j) One (1) raw material silo, identified as EU #10, pneumatic transfer, equipped with the Stonsheild Central Dust Collector, installed in 1987, exhausted through Stack 9, storage capacity: 63 tons of sand, throughput capacity: 9,000 pounds of sand per hour.
- (k) One (1) Stonshield blender, one (1) Stonshield weigh hopper and three (3) tote stations, collectively identified as EU #11, pneumatic transfer, equipped with the Stonsheild Central Dust Collector, installed in 1987, exhausted through Stack 9, storage capacity: 2.4 tons of sand, throughput capacity: 7,000 pounds of sand per hour.
- (l) One (1) Stonshield screening, Forburg surge hopper and raw material transporter, collectively identified as EU #12, equipped with Central Dust Collector, installed in 1987, exhausted through Stack 10, throughput capacity: 7,000 pounds of sand per hour.
- (m) One (1) hand pack line with hopper bin, identified as EU #13, equipped with a baghouse dust collector, identified as Baghouse #11, installed in 1997, exhausted through Stack 11, storage capacity: 2.4 tons of sand, throughput capacity: 680 pounds of sand per hour.
- (n) One (1) fluidized zone mixer designated as Forburg Mixer, identified as EU #15, equipped with a baghouse dust collector, identified as Baghouse #12, exhausting through Stack 15, installed in 1999, capacity: 17,143 pounds of aggregate, pigment and polymer dispersion per hour (8.571 batches per hour).

UT Process

- (o) One (1) ribbon blender, identified as EU #16, equipped with a baghouse dust collector, identified as Baghouse UT, exhausting inside the building, installed in 1999, capacity: 5,000 pounds of aggregates per hour.
- (p) One (1) bagging machine, identified as EU #17, equipped with a baghouse dust collector, identified as Baghouse UT, exhausting inside the building, installed in 1999, capacity: 5,000 pounds of aggregates per hour.

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

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

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour, consisting of one (1) natural gas-fired hot air blower, rated at 1.0 million British thermal units per hour.
- (b) The following VOC and HAP storage containers: Storage tanks with capacity less than or equal to 1,000 gallons and annual throughputs less than 12,000 gallons.
- (c) Any unit emitting less than twenty-five (25) pounds per day or less than five (5) pounds per hour of particulate matter: Bulk bag unloader - breaking of bag of sand. (326 IAC 6-3-2).

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) to renew 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, F 003-19431-00217, 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]

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. The submittal by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1). 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) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by an "authorized individual" of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification. 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. All certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted no later than July 1 of each year to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
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 the certification 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 maintain and implement Preventive Maintenance Plans (PMPs) 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.
- (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 or potential to emit. The PMPs do not require the certification 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 Section), or
Telephone Number: 317-233-0178 (ask for Compliance Section)
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 Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

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

The notice fulfills the requirement of 326 IAC 2-8-4(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 the certification 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.

- (h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report.

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

- (a) All terms and conditions of permits established prior to F 003-19431-00217 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 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]

- (a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provisions), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

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

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

The Quarterly Deviation and Compliance Monitoring Report does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

B.16 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 the certification 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(c), 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.17 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 the certification 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
Permits Branch, Office of Air Quality
100 North Senate Avenue
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 dead-

line specified in writing by IDEM, OAQ, any additional information identified as being needed to process the application.

B.18 Permit Amendment or Revision [326 IAC 2-8-10][326 IAC 2-8-11.1]

(a) Permit amendments and revision 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
Permits Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

Any such application shall be certified 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.19 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
Permits Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

and

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

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 in the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-8-15(c).
- (c) Alternative Operating Scenarios [326 IAC 2-8-15(c)]
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.20 Source Modification Requirement [326 IAC 2-8-11.1]

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-8-11.1.

B.21 Inspection and Entry [326 IAC 2-8-5(a)(2)][IC 13-14-2-2][IC 13-17-3-2][IC13-30-3-1]

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.22 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
Permits Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251
- The application which shall be submitted by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) The Permittee may implement notice-only changes addressed in the request for a notice-only change immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.23 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, within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ, the applicable fee is due April 1 of each year.
- (b) Failure to pay may result in administrative enforcement action or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.24 Credible Evidence [326 IAC 2-8-4(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

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

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

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

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

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. This limitation shall also make the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable;
- (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) The potential to emit particulate matter (PM) from the entire source shall be limited to less than two hundred and fifty (250) tons per twelve (12) consecutive month period. This limitation shall make the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

(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.3 Opacity [326 IAC 5-1]

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

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

Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.4 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.5 Incineration [326 IAC 4-2] [326 IAC 9-1-2]

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

C.6 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.7 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 plan submitted on September 15, 1994. The plan consists of controlling fugitive dust by utilizing air pollution control equipment, specifically baghouse dust collectors. Fugitive emissions shall be considered in compliance with the control plan provided that the visible emissions do not exceed 20% opacity.

C.8 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.

C.9 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
 - (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
 - (2) If there is a change in the following:
 - (A) Asbestos removal or demolition start date;
 - (B) Removal or demolition contractor; or
 - (C) Waste disposal site.

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

All required notifications shall be submitted to:

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

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by 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 Accredited Asbestos Inspector**
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Accredited Asbestos inspector is not federally enforceable.

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

C.10 Performance Testing [326 IAC 3-6]

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

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

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

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by 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 certification 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, and OES not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ, and OES 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.11 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.12 Compliance Monitoring [326 IAC 2-8-4(3)][326 IAC 2-8-5(a)(1)]

Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. If due to circumstances beyond its control, that equipment cannot be installed and operated within ninety (90) days, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

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

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

The notification which shall be submitted by the Permittee does require the certification by 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 source modification shall be implemented when operation begins.

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

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

C.14 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 pressure gauge or other instrument specification will adequately ensure compliance with permit conditions requiring the measurement the parameters.

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

C.15 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.16 Response to Excursions or Exceedances [326 IAC 2-8-4] [326 IAC 2-8-5]

- (a) Upon detecting an excursion or exceedance, the Permittee shall restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions may include, but are not limited to, the following:
 - (1) initial inspection and evaluation
 - (2) recording that operations returned to normal without operator action (such as through response by a computerized distribution control system); or
 - (3) any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
 - (1) monitoring results;
 - (2) review of operation and maintenance procedures and records;
 - (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall maintain the following records:
 - (1) monitoring data;
 - (2) monitor performance data, if applicable; and
 - (3) corrective actions taken.

C.17 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 take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ, may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The response action documents submitted pursuant to this condition do require the certification by 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.18 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, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

C.19 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. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251
- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, and OES on or before the date it is due.

- (d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (e) 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.20 Compliance with 40 CFR 82 and 326 IAC 22-1

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

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

SECTION D.1

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)] Sand Blending and Bagging Operations

Stonclad Process

- (a) Three (3) silos, identified as EU #1 (silos 1 - 3), pneumatic transfer, equipped with a baghouse dust collector, identified as Baghouse #1, installed prior to 1982, exhausted through Stack 1, storage capacities: 210, 151 and 150 tons of sand, respectively, throughput capacities: 9,000, 11,000 and 3,500 pounds of sand per hour, respectively.
- (b) Two (2) silos, identified as EU #2 (silos 4 & 5), pneumatic transfer, each equipped with a baghouse dust collector, identified as Baghouse #2, installed in 1982, exhausted through Stack 2, storage capacities: 70, and 46 tons of sand, respectively, throughput capacities: 800 and 300 pounds of sand per hour, respectively.
- (c) One (1) sand feed chute, identified as EU #3, equipped with polyester felt bag for particulate matter control, installed in 1982, exhausted through Stack 3, storage capacity: 500 pounds of sand, throughput capacity: 17,000 pounds of sand per hour.
- (d) One (1) Stonclad blender, identified as EU #4, pneumatic transfer, equipped with baghouse dust collector, identified as Baghouse #4, installed in 1982, exhausted through Stack 4, storage capacity: 5,000 pounds per hour, throughput capacity: 17,000 pounds of sand per hour.
- (e) One (1) Stonclad bagger and receiving bin, identified as EU #5, pneumatic transfer, equipped with the Central Dust Collector and a baghouse dust collector, identified as Baghouse #5, respectively, installed in 1987, exhausted through Stacks 10 and 5, storage capacity: 22 tons of sand, throughput capacity: 17,000 pounds of sand per hour.

Stonblend/Stonshield Coating Process

- (f) One (1) Forburg receiving bin, identified as EU #6, pneumatic transfer, equipped with baghouse dust collector, identified as Baghouse #6, installed in 1987, exhausted through Stack 6, storage capacity: 1.2 tons of sand, throughput capacity: 9,000 pounds of sand per hour.
- (g) One (1) tote fill station, identified as EU #7, pneumatic transfer, equipped with baghouse dust collector for conveying, identified as Baghouse #7, and the Central Dust Collector for filling, installed in 1987, exhausted through Stacks 7 and 10, storage capacity: 1.2 tons of sand, throughput capacity: 9,000 pounds of sand per hour.
- (h) One (1) Stonsheild bagger and receiving bin, identified as EU #8, pneumatic transfer, equipped with the Central Dust Collector and a baghouse dust collector, identified as Baghouse #8, respectively, installed in 1987, exhausted through Stacks 10 and 8, storage capacity: 3.2 tons of sand, capacity: 19,152 pounds of sand per hour.
- (i) One (1) white silo, identified as EU #9, pneumatic transfer, equipped with the Stonsheild Central Dust Collector, installed in 1987, exhausted through Stack 9, storage capacity: 52 tons of sand, throughput capacity: 7,000 pounds of sand per hour.

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

Facility Description [326 IAC 2-8-4(10)] Sand Blending and Bagging Operations (continued)

Stonblend/Stonshield Coating Process (continued)

- (j) One (1) raw material silo, identified as EU #10, pneumatic transfer, equipped with the Stonsheild Central Dust Collector, installed in 1987, exhausted through Stack 9, storage capacity: 63 tons of sand, throughput capacity: 9,000 pounds of sand per hour.
- (k) One (1) Stonshield blender, one (1) Stonshield weigh hopper and three (3) tote stations, collectively identified as EU #11, pneumatic transfer, equipped with the Stonsheild Central Dust Collector, installed in 1987, exhausted through Stack 9, storage capacity: 2.4 tons of sand, throughput capacity: 7,000 pounds of sand per hour.
- (l) One (1) Stonshield screening, Forburg surge hopper and raw material transporter, collectively identified as EU #12, equipped with Central Dust Collector, installed in 1987, exhausted through Stack 10, throughput capacity: 7,000 pounds of sand per hour.
- (m) One (1) hand pack line with hopper bin, identified as EU #13, equipped with a baghouse dust collector, identified as Baghouse #11, installed in 1997, exhausted through Stack 11, storage capacity: 2.4 tons of sand, throughput capacity: 680 pounds of sand per hour.
- (n) One (1) fluidized zone mixer designated as Forburg Mixer, identified as EU #15, equipped with a baghouse dust collector, identified as Baghouse #12, exhausting through Stack 15, installed in 1999, capacity: 17,143 pounds of aggregate, pigment and polymer dispersion per hour (8.571 batches per hour).

UT Process

- (o) One (1) ribbon blender, identified as EU #16, equipped with a baghouse dust collector, identified as Baghouse UT, exhausting inside the building, installed in 1999, capacity: 5,000 pounds of aggregates per hour.
- (p) One (1) bagging machine, identified as EU #17, equipped with a baghouse dust collector, identified as Baghouse UT, exhausting inside the building, installed in 1999, capacity: 5,000 pounds of aggregates per hour.

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

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

D.1.1 PM₁₀ Limitations [326 IAC 2-8-4] [326 IAC 2-2]

- (a) The PM₁₀ emissions shall not exceed the rates indicated in the following table:

| Stack | Emission Unit(s) EU # | Hourly PM ₁₀ Emission Rate Limits (pounds per hour) |
|-------|--------------------------|--|
| 1 | 1 | 2.10 |
| 2 | 2 | 2.10 |
| 3 | 3 | 0.279 |

| Stack | Emission Unit(s) EU # | Hourly PM₁₀ Emission Rate Limits (pounds per hour) |
|---|----------------------------------|--|
| 4 | 4 | 1.80 |
| 5 | 5 | 0.528 |
| 6 | 6 | 0.528 |
| 7 | 7 | 1.25 |
| 8 | 8 | 1.80 |
| 9 (Stonshield Central Dust Collector) | 9, 10 & 11 | 1.78 |
| 10 (Central Dust Collector) | 5, 7, 8 & 12 | 1.78 |
| 11 | 13 | 2.10 |
| 15 | 15 | 3.52 |
| None (Baghouse UT) | 16 & 17 | 2.12 |

(b) Compliance with these limits shall satisfy the requirements of 326 IAC 2-8-4 and also make the requirements of 326 IAC 2-2 not applicable.

D.1.2 PM Limitations [326 IAC 2-2]

(a) The PM emissions shall not exceed the rates indicated in the following table:

| Stack | Emission Unit(s) EU # | Hourly PM Emission Rate Limits (pounds per hour) |
|---|----------------------------------|---|
| 1 | 1 | 5.40 |
| 2 | 2 | 5.40 |
| 3 | 3 | 0.720 |
| 4 | 4 | 4.64 |
| 5 | 5 | 1.36 |
| 6 | 6 | 1.36 |
| 7 | 7 | 3.22 |
| 8 | 8 | 4.64 |
| 9 (Stonshield Central Dust Collector) | 9, 10 & 11 | 4.60 |
| 10 (Central Dust Collector) | 5, 7, 8 & 12 | 4.60 |

| Stack | Emission Unit(s) EU # | Hourly PM Emission Rate Limits (pounds per hour) |
|-----------------------|----------------------------------|---|
| 11 | 13 | 5.40 |
| 15 | 15 | 9.07 |
| None (Baghouse UT) | 16 & 17 | 5.47 |

(b) Compliance with these limits shall make the requirements of 326 IAC 2-2 not applicable.

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

(a) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the following emission units shall not exceed the rates specified in the following table:

| Operation | Process Weight Rate (tons/hour) | Allowable Particulate Emission Rate (pounds/hour) |
|--|--|--|
| EU #1 | 11.75 | 21.4 |
| EU #2 | 0.550 | 2.75 |
| EU #3 | 8.50 | 17.2 |
| EU #4 | 8.50 | 17.2 |
| EU #5 | 8.50 | 17.2 |
| EU #6 | 4.50 | 11.2 |
| EU #7 | 4.50 | 11.2 |
| EU #8 | 9.58 | 18.6 |
| Stack 9 Stonshield Central Dust Collector EUs #9, 10 & 11 | 11.5 total | 21.1 total |
| EU #13 | 0.340 | 1.99 |
| Baghouse UT EUs #16 & 17 | 5.00 total | 12.1 total |
| Stack 10 Central Dust Collector EUs #5, 7, 8 & 12 | 26.1 total | 36.5 total |

(b) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the EU #15 shall not exceed 17.3 pounds per hour when operating at a process weight rate of 8.57 tons per hour.

(c) The pounds per hour limitations were calculated using the following equation:

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

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

D.1.4 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for EU #1, EU #3, EU #4, EU #5, EU #6, EU #7, EU #8, EU #9, EU #10, EU #11, EU #12, EU #15, EU #16 and EU #17 and their control devices.

Compliance Determination Requirements

D.1.5 Particulate Control

- (a) Pursuant to CP 003-10569-00217, issued on May 10, 1999, and in order to comply with Conditions D.1.1, D.1.2 and D.1.3, the Baghouse UT and Baghouse #12 for particulate control shall be in operation and control emissions from the EU #15, EU #16 and EU #17 at all times that the EU #15, EU #16 and EU #17 are in operation.
- (b) In order to comply with Conditions D.1.1, D.1.2 and D.1.3, the Central Dust Collector, the Stonshield Central Dust Collector as well as Baghouses #1, #2, #4, #5, #6, #7, #8 and #11 for particulate control shall be in operation and control emissions from the EU #1, EU #2, EU #4, EU #5, EU #6, EU #7, EU #8, EU #9, EU #10, EU #11 and EU #12 at all times that these emission units are in operation.
- (c) In order to comply with Conditions D.1.1, D.1.2 and D.1.3, the polyester felt bags for particulate control shall be in operation and control emissions from the EU #3 at all times that the EU #3 is in operation.
- (d) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

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

D.1.6 Visible Emissions Notations

- (a) Visible emission notations of the Stack exhausts 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 and 15 shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (b) Visible emission notations of the exhaust from Baghouse UT shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (c) 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.
- (d) 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.
- (e) 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.

- (f) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

D.1.7 Parametric Monitoring

- (a) The Permittee shall record the pressure drop across the Baghouses #1, #2, #4, #5, #6, #7, #8, #11 as well as the Central Dust Collector and the Stonshield Central Dust Collector used in conjunction with the sand blending and bagging processes, at least once per day when EU #1, EU #2, EU #4, EU #5, EU #6, EU #7, EU #8, EU #13, as well as EU #9, EU #10 and EU #11 are in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 0.5 and 5.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.
- (b) The Permittee shall record the pressure drop across the Baghouse #12 used in conjunction with the aggregate handling processes, at least once per day when EU #15 is in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 0.5 and 4.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.
- (c) The Permittee shall record the pressure drop across the Baghouse UT used in conjunction with the aggregate processes, at least once per day when EU #16 and EU #17 are in operation and venting to the atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range of 0.5 and 5.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.
- (d) 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 at least once every six (6) months.

D.1.8 Polyester Felt Bag Inspections

An inspection shall be performed each calendar quarter of all polyester felt bags controlling the sand feed chute, identified as EU #3, when venting to the atmosphere. Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.

D.1.9 Broken or Failed Bag Detection

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

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

Bag failure can be indicated by a significant drop in the 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 Requirement [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.1.10 Record Keeping Requirements

- (a) To document compliance with Condition D.1.6(a), the Permittee shall maintain records of visible emission notations of the Stack exhausts 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 and 15 once per day.
- (b) To document compliance with Condition D.1.6(b), the Permittee shall maintain records of visible emission notations of the Baghouse UT exhaust once per day when exhausting to the atmosphere.
- (c) To document compliance with Conditions D.1.7(a) and D.1.7(b), the Permittee shall maintain records once per day of the pressure drop.
- (d) To document compliance with Condition D.1.7(c), the Permittee shall maintain records once per day of the pressure drop when venting to the atmosphere.
- (e) To document compliance with Condition D.1.8, the Permittee shall maintain records of the results of the inspections required under Condition D.1.8.
- (f) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.2

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)] Insignificant Activities

- (c) Any unit emitting less than twenty-five (25) pounds per day or less than five (5) pounds per hour of particulate matter: Bulk bag unloader - breaking of bag of sand. (326 IAC 6-3-2).

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

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

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

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the bulk bag unloader shall not exceed the pound per hour emission rate established as E in the following equation:

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

$$E = 4.10 P^{0.67}$$

where E = rate of emission in pounds per hour;
and P = process weight rate in tons per hour

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY**

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

Source Name: The StonCor Group, Inc.
Source Address: 1310 Dividend Road, Fort Wayne, Indiana 46808
Mailing Address: 1310 Dividend Road, Fort Wayne, Indiana 46808
FESOP No.: F 003-19431-00217

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 BRANCH
100 North Senate Avenue
Indianapolis, Indiana 46204-2251
Phone: 317-233-0178
Fax: 317-233-6865**

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

Source Name: The StonCor Group, Inc.
Source Address: 1310 Dividend Road, Fort Wayne, Indiana 46808
Mailing Address: 1310 Dividend Road, Fort Wayne, Indiana 46808
FESOP No.: F 003-19431-00217

This form consists of 2 pages

Page 1 of 2

- | |
|---|
| <input type="checkbox"/> This is an emergency as defined in 326 IAC 2-7-1(12) <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: _____

A certification is not required for this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: The StonCor Group, Inc.
Source Address: 1310 Dividend Road, Fort Wayne, Indiana 46808
Mailing Address: 1310 Dividend Road, Fort Wayne, Indiana 46808
FESOP No.: F 003-19431-00217

Months: _____ to _____ Year: _____

Page 1 of 2

| | |
|---|-------------------------------|
| <p>This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. 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 "No 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: _____

A certification is not required for this report.

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

Technical Support Document (TSD) for a
Federally Enforceable State Operating Permit (FESOP) Renewal

Source Background and Description

| | |
|--|--|
| Source Name: | The StonCor Group, Inc. |
| Source Location: | 1310 Dividend Road, Fort Wayne, Indiana 46808 |
| County: | Allen |
| SIC Codes: | 3272 |
| Operation Permit No.: | F 003-10697-00217 |
| Operation Permit Issuance Date: | April 27, 2000 |
| Permit Renewal No.: | F 003-19431-00217 |
| Permit Reviewer: | Mark L. Kramer |

The Office of Air Quality (OAQ) has reviewed a FESOP renewal application from The StonCor Group, Inc. relating to the operation of a colored sand blending and bagging source.

Permitted Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units and pollution control devices:

Stonclad Process

- (a) Three (3) silos, identified as EU #1 (silos 1 - 3), pneumatic transfer, equipped with a baghouse dust collector, identified as Baghouse #1, installed prior to 1982, exhausted through Stack 1, storage capacities: 210, 151 and 150 tons of sand, respectively, throughput capacities: 9,000, 11,000 and 3,500 pounds of sand per hour, respectively.
- (b) Two (2) silos, identified as EU #2 (silos 4 & 5), pneumatic transfer, each equipped with a baghouse dust collector, identified as Baghouse #2, installed in 1982, exhausted through Stack 2, storage capacities: 70, and 46 tons of sand, respectively, throughput capacities: 800 and 300 pounds of sand per hour, respectively.
- (c) One (1) sand feed chute, identified as EU #3, equipped with polyester felt bag for particulate matter control, installed in 1982, exhausted through Stack 3, storage capacity: 500 pounds of sand, throughput capacity: 17,000 pounds of sand per hour.
- (d) One (1) Stonclad blender, identified as EU #4, pneumatic transfer, equipped with baghouse dust collector, identified as Baghouse #4, installed in 1982, exhausted through Stack 4, storage capacity: 5,000 pounds per hour, throughput capacity: 17,000 pounds of sand per hour.
- (e) One (1) Stonclad bagger and receiving bin, identified as EU #5, pneumatic transfer, equipped with the Central Dust Collector and a baghouse dust collector, identified as Baghouse #5, respectively, installed in 1987, exhausted through Stacks 10 and 5, storage capacity: 22 tons of sand, throughput capacity: 17,000 pounds of sand per hour.

Stonblend/Stonshield Coating Process

- (f) One (1) Forburg receiving bin, identified as EU #6, pneumatic transfer, equipped with baghouse dust collector, identified as Baghouse #6, installed in 1987, exhausted through Stack 6, storage capacity: 1.2 tons of sand, throughput capacity: 9,000 pounds of sand per hour.

- (g) One (1) tote fill station, identified as EU #7, pneumatic transfer, equipped with baghouse dust collector for conveying, identified as Baghouse #7, and the Central Dust Collector for filling, installed in 1987, exhausted through Stacks 7 and 10, storage capacity: 1.2 tons of sand, throughput capacity: 9,000 pounds of sand per hour.
- (h) One (1) Stonsheild bagger and receiving bin, identified as EU #8, pneumatic transfer, equipped with the Central Dust Collector and a baghouse dust collector, identified as Baghouse #8, respectively, installed in 1987, exhausted through Stacks 10 and 8, storage capacity: 3.2 tons of sand, capacity: 19,152 pounds of sand per hour.
- (i) One (1) white silo, identified as EU #9, pneumatic transfer, equipped with the Stonsheild Central Dust Collector, installed in 1987, exhausted through Stack 9, storage capacity: 52 tons of sand, throughput capacity: 7,000 pounds of sand per hour.
- (j) One (1) raw material silo, identified as EU #10, pneumatic transfer, equipped with the Stonsheild Central Dust Collector, installed in 1987, exhausted through Stack 9, storage capacity: 63 tons of sand, throughput capacity: 9,000 pounds of sand per hour.
- (k) One (1) Stonshield blender, one (1) Stonshield weigh hopper and three (3) tote stations, collectively identified as EU #11, pneumatic transfer, equipped with the Stonsheild Central Dust Collector, installed in 1987, exhausted through Stack 9, storage capacity: 2.4 tons of sand, throughput capacity: 7,000 pounds of sand per hour.
- (l) One (1) Stonshield screening, Forburg surge hopper and raw material transporter, collectively identified as EU #12, equipped with Central Dust Collector, installed in 1987, exhausted through Stack 10, throughput capacity: 7,000 pounds of sand per hour.
- (m) One (1) hand pack line with hopper bin, identified as EU #13, equipped with a baghouse dust collector, identified as Baghouse #11, installed in 1997, exhausted through Stack 11, storage capacity: 2.4 tons of sand, throughput capacity: 680 pounds of sand per hour.
- (n) One (1) fluidized zone mixer designated as Forburg Mixer, identified as EU #15, equipped with a baghouse dust collector, identified as Baghouse #12, exhausting through Stack 15, installed in 1999, capacity: 17,143 pounds of aggregate, pigment and polymer dispersion per hour (8.571 batches per hour).

UT Process

- (o) One (1) ribbon blender, identified as EU #16, equipped with a baghouse dust collector, identified as Baghouse UT, exhausting inside the building, installed in 1999, capacity: 5,000 pounds of aggregates per hour.
- (p) One (1) bagging machine, identified as EU #17, equipped with a baghouse dust collector, identified as Baghouse UT, exhausting inside the building, installed in 1999, capacity: 5,000 pounds of aggregates per hour.

Unpermitted Emission Units and Pollution Control Equipment

There are no unpermitted emission units operating at this source during this review process.

New Emission Units and Pollution Control Equipment Receiving Advanced Source Modification Approval

There are no proposed emission units during this review process.

Insignificant Activities

The source also consists of the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour, consisting of one (1) natural gas-fired hot air blower, rated at 1.0 million British thermal units per hour.
- (b) The following VOC and HAP storage containers: Storage tanks with capacity less than or equal to 1,000 gallons and annual throughputs less than 12,000 gallons.
- (c) Any unit emitting less than twenty-five (25) pounds per day or less than five (5) pounds per hour of particulate matter: Bulk bag unloader - breaking of bag of sand. (326 IAC 6-3-2).

Existing Approvals

The source has been operating under the previous FESOP 003-10697-00217, issued on April 27, 2000, and the following amendments and revisions:

- (a) Reopening 003-13008-00217, issued on November 28, 2001
- (b) AA 003-17775-00217, issued on July 9, 2003

All conditions from previous approvals were incorporated into this FESOP except the following:

- (a) CP 003-10569-00217, issued on May 10, 1999 and FESOP F 003-10697-00217, issued on April 27, 2000

Condition D.1.1: Pursuant to CP 003-10569-00217, issued on May 10, 1999, and 326 IAC 6-3-2, the allowable particulate matter from the UT Process manufacturing operation (ribbon blender (EU #16) and bagging machine (EU #17)) shall be limited to 7.58 pounds per hour each based on a process weight rate of 5,000 pounds per hour (2.50 tons per hour) each.

Reason not incorporated: Since the two (2) emission units (EU #16 and EU #17) exhaust to a common baghouse, identified as Baghouse UT, a combined process weight rate will be utilized to calculate the allowable particulate emission rate. See Page 1 of 2 of Appendix A.

- (b) F 003-10697-00217 issued on April 27, 2000

Condition D.1.2 - Pursuant to 326 IAC 2-8-4, the individual emissions units at the Stonclad, the Stonblend/Stonsheid Coating and the UT Processes shall not exceed the following hourly PM₁₀ emission limits:

| Process | Hourly PM ₁₀ Emission Limit (pounds per hour) |
|------------------------------|---|
| Stonclad | 6.81 |
| Stonblend/Stonshield Coating | 12.8 |
| UT | 2.13 |
| Total | 21.7 |

Reason not incorporated: In order to be able to verify compliance with the PM₁₀ emission rate limits, individual limits have been assigned to each stack. See Page 2 of 2 of Appendix A.

(c) F 003-10697-00217 issued on April 27, 2000

Condition D.1.3 - The individual emissions units at the Stonclad, the Stonblend/Stonshield Coating and the UT Processes shall not exceed the following hourly PM emission limits:

| Process | Hourly PM Emission Limit (pounds per hour) |
|------------------------------|---|
| Stonclad | 17.5 |
| Stonblend/Stonshield Coating | 32.9 |
| UT | 5.48 |
| Total | 55.9 |

Reason not incorporated: In order to render the requirements of 326 IAC 2-2 not applicable, individual PM emission rate limits have been assigned to each stack. See Page 2 of 2 of Appendix A.

Air Pollution Control Justification as an Integral Part of the Process

The following justification was incorporated into this permit from the previous FESOP:

IDEM, OAQ has evaluated the justifications and agreed that the baghouses will be considered as an integral part of the processes that use pneumatic conveyance equipment. Therefore, the permitting level will be determined using the potential to emit after the baghouses. Operating conditions in the proposed permit will specify that these baghouses shall operate at all times when the pneumatic transfer processes are in operation.

Enforcement Issue

There are no enforcement actions pending.

Recommendation

The staff recommends to the Commissioner that the FESOP renewal be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An administratively complete FESOP renewal application for the purposes of this review was received on July 29, 2004.

There was no notice of completeness letter mailed to the source.

Emission Calculations

See pages 1 and 2 of 2 of Appendix A of this document for detailed emission calculations.

Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions of the source, excluding the emission limits that were contained in the previous FESOP.

| Pollutant | Unrestricted Potential Emissions (tons/yr) |
|------------------|--|
| PM | 6,247 |
| PM ₁₀ | 6,247 |
| SO ₂ | negligible |
| VOC | 0.500 |
| CO | 0.368 |
| NO _x | 0.438 |

| HAPs | Unrestricted Potential Emissions (tons/yr) |
|-------|--|
| Total | 0.500 |

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of PM₁₀ is equal to or greater than one hundred (100) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7. The source will be issued a FESOP because the source will limit its emissions below the Title V levels.
- (b) Fugitive Emissions
 Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.

Potential to Emit After Issuance

The source has opted to remain a FESOP source. The table below summarizes the potential to emit, reflecting all limits of the emission units. Any control equipment is considered 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. Since the source has not constructed any new emission units, the source's potential to emit is based on the emission units included in the original FESOP.

| Process/Emission Unit | Potential To Emit (tons/year) | | | | | | |
|--------------------------|-------------------------------|------------------|-----------------|-------|-------|-----------------|-------|
| | PM | PM ₁₀ | SO ₂ | VOC | CO | NO _x | HAPs |
| EU #1 - EU #17 | 13.8 | 13.8 | - | - | - | - | - |
| Insignificant Activities | 5.0 | 5.0 | negligible | 0.500 | 0.368 | 0.438 | 0.500 |
| Total Emissions | 18.8 | 18.8 | negligible | 0.500 | 0.368 | 0.438 | 0.500 |

County Attainment Status

The source is located in Allen County.

| Pollutant | Status |
|-------------------|---------------------|
| PM _{2.5} | attainment |
| PM ₁₀ | attainment |
| SO ₂ | attainment |
| NO ₂ | attainment |
| 1-Hour Ozone | attainment |
| 8-Hour Ozone | basic nonattainment |
| CO | attainment |
| Lead | attainment |

- (a) Volatile organic compounds (VOC) and nitrogen oxides (NO_x) 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 NO_x emissions are considered when evaluating the rule applicability relating to the ozone standards. Allen County has been designated as nonattainment for the 8-hour ozone standard. Therefore, VOC and NO_x emissions were reviewed pursuant to the requirements of 326 IAC 2-3, Emission Offset. See the State Rule Applicability - Entire Source section of this document.
- (b) Allen County has been classified as unclassifiable or attainment for PM_{2.5}. U.S. EPA has not yet established the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 for PM_{2.5} emissions. Therefore, until the U.S.EPA adopts specific provisions for PSD review for PM_{2.5} emissions, it has directed states to regulate PM₁₀ emissions as a surrogate for PM_{2.5} emissions. See the State Rule Applicability - Entire Source section of this document.
- (c) Allen County has been classified as attainment or unclassifiable in Indiana for all remaining criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability - Entire Source section of this document.
- (d) Fugitive Emissions
Since this type of operation is not one of the 28 listed source categories under 326 IAC 2-2 or 2-3 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.

Source Status

Existing Source PSD, Part 70, or FESOP Definition (emissions after controls, based on 8760 hours of operation per year at rated capacity and/or as otherwise limited):

| Pollutant | Emissions (tons/yr) |
|------------------|---------------------|
| PM | 18.8 |
| PM ₁₀ | 18.8 |
| SO ₂ | negligible |
| VOC | 0.500 |
| CO | 0.368 |
| NO _x | 0.438 |
| Combination HAPs | 0.5 |

- (a) This existing source is **not** a major stationary source because no attainment regulated pollutant is emitted at a rate of two-hundred fifty (250) tons per year or greater and it is not in one of the twenty-eight (28) listed source categories.
- (b) This existing source is **not** a major stationary source because no nonattainment regulated pollutant is emitted at a rate of one hundred (100) tons per year or greater, and it is not in one of the twenty-eight (28) listed source categories.

Federal Rule Applicability

- (a) The requirements of New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60.670, Subpart OOO) are not included in this permit because as per the definition of a Nonmetallic Mineral Processing facility, the processing of nonmetallic minerals must include crushing or grinding. Since there are no crushing or grinding facilities at this source, the requirements of this rule have not been included in the permit.
- (b) There are no other New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in the permit for this source.
- (c) There are no National Emission Standards for Hazardous Air Pollutants (NESHAP)(326 IAC 14, 20 and 40 CFR Part 61, 63) included in the permit for this source.

State Rule Applicability – Entire Source

326 IAC 2-2 (Prevention of Significant Deterioration (PSD))

- (a) After controls, the emissions from this source of particulate and PM₁₀ are less than two hundred and fifty (250) tons per year. Therefore, the source is classified a minor source under PSD rules and thus the requirements of this rule are not applicable.

To assure compliance with 326 IAC 2-2, limited hourly PM emission rates assigned to each process (Stonclad, Stonblend/Stonshield Coating and UT) in the previous FESOP, equivalent to a total of 245 tons per year of PM for all significant emission units have been revised to assign PM emission rate limits by stack and for the emission units EU #16 and EU #17, equipped with Baghouse UT that exhausts inside the building as shown in the following table:

| Stack | Emission Unit(s) EU # | Hourly PM Limits (pounds per hour) |
|--|--------------------------|---------------------------------------|
| 1 | 1 | 5.40 |
| 2 | 2 | 5.40 |
| 3 | 3 | 0.720 |
| 4 | 4 | 4.64 |
| 5 | 5 | 1.36 |
| 6 | 6 | 1.36 |
| 7 | 7 | 3.22 |
| 8 | 8 | 4.64 |
| 9 (Stonshield Central Dust Collector) | 9, 10 & 11 | 4.60 |
| 10 (Central Dust Collector) | 5, 7, 8 & 12 | 4.60 |
| 11 | 13 | 5.40 |
| 15 | 15 | 9.07 |
| None (Baghouse UT) | 16 & 17 | 5.47 |
| Total | All | 55.9 |

- (b) The potential to emit PM₁₀ from the entire source is limited to less than one hundred (100) tons per year in order to comply with the requirements of 326 IAC 2-8, FESOP. Those hourly PM₁₀ limits will also ensure that this source remains a minor source of PM₁₀ pursuant to 326 IAC 2-2, PSD.

326 IAC 2-3 (Emission Offset)

The unrestricted potential VOC and NO_x emissions are each less than one-hundred (100) tons per year. Therefore, this source is a minor source pursuant to 326 IAC 2-3, Emission Offset.

326 IAC 2-6 (Emission Reporting)

This source is not located in Lake or Porter County with the potential to emit greater than twenty-five (25) tons per year of NO_x, does not emit five (5) tons per year or more of lead and does not require a Part 70 Operating Permit. Therefore, the requirements of 326 IAC 2-6 do not apply.

326 IAC 2-8-4 (FESOP)

Pursuant to this rule, the amount of PM₁₀ shall be limited to less than one hundred (100) tons per year. Therefore, the requirements of 326 IAC 2-7, do not apply.

To assure compliance with 326 IAC 2-8-4, limited hourly PM₁₀ emission rates assigned to each process (Stonclad, Stonblend/Stonshield Coating and UT) in the previous FESOP, equivalent to a total of 95 tons per year of PM₁₀ for all significant emission units have been revised to assign PM₁₀ emission rate limits by stack and for the emission units EU #16 and EU #17, equipped with Baghouse UT that exhausts inside the building as shown in the following table:

| Stack | Emission Unit(s) EU # | Hourly PM ₁₀ Limits (pounds per hour) |
|---------------------------------------|--------------------------|---|
| 1 | 1 | 2.10 |
| 2 | 2 | 2.10 |
| 3 | 3 | 0.279 |
| 4 | 4 | 1.80 |
| 5 | 5 | 0.528 |
| 6 | 6 | 0.528 |
| 7 | 7 | 1.25 |
| 8 | 8 | 1.80 |
| 9 (Stonshield Central Dust Collector) | 9, 10 & 11 | 1.78 |
| 10 (Central Dust Collector) | 5, 7, 8 & 12 | 1.78 |
| 11 | 13 | 2.10 |
| 15 | 15 | 3.52 |
| None (Baghouse UT) | 16 & 17 | 2.12 |
| Total | All | 21.7 |

These hourly PM₁₀ emission limits also make the requirements of 326 IAC 2-2 for PM₁₀ not applicable.

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 the permit:

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

326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations)

Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the plan submitted on September 15, 1994. The plan consists of controlling fugitive dust by utilizing air pollution control equipment, specifically baghouse dust collectors. Fugitive emissions shall be considered in compliance with the control plan provided that the visible emissions do not exceed 20% opacity.

State Rule Applicability - Individual Facilities

326 IAC 2-8-4(9) (Preventive Maintenance Plan)

- (a) A Preventive Maintenance Plan is required for EU #1, EU #3, EU #4, EU #6, EU #15, EU #16 and EU #17 because the allowable particulate exceeds ten (10) pounds per hour and each emission unit has a control device.
- (b) A Preventive Maintenance Plan is required for EU #9, EU #10 and EU #11 because each of these emission units is exhausted through the Stonshield Central Dust Collector (Stack 9) and the allowable particulate for Stack 9 exceeds ten (10) pounds per hour.
- (c) A Preventive Maintenance Plan is required for EU #5, EU #7, EU #8 and EU #12 because each of these emission units is exhausted through the Central Dust Collector (Stack 10) and the allowable particulate exceeds ten (10) pounds per hour.
- (d) A Preventive Maintenance Plan is not required for EU #2 and EU #13 because the allowable particulate for each emission unit does not exceed ten (10) pounds per hour and each emission unit has a control device.

326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)

- (a) Stonshield Process

Pursuant to 326 IAC 6-3-2, the particulate from the EU #15 shall be limited to 17.3 pounds per hour based on a process weight rate of 17,143 pounds per hour (8.57 tons per hour). EU #15 complies with this allowable PM emission limit since the potential PM emissions after control are 0.512 pounds per hour. The allowable PM emission rate is calculated by the following equation for the process weight rate up to sixty thousand (60,000) pounds per hour:

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

Baghouse #12 shall be in operation at all times EU#15 is in operation, in order to comply with this limit.

- (b) All Other Emission Units

Pursuant to 326 IAC 6-3-2, the particulate from the emission units specified in the following table shall not exceed the stated particulate emission rate in pounds per hour when operating at the stated process weight rates. The particulate emission rates are calculated with the following:

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

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

All baghouses controlling these emission units shall be in operation at all times that the emission unit is in operation, in order to comply with these limits.

The PM emissions from each emission unit listed on page 1 of 2 of Appendix A substantiates that all emission units comply with the allowable particulate emission rates.

| Operation | Process Weight Rate (tons/hour) | Allowable Particulate Emission Rate (pounds/hour) | Potential PM Emission Rate After Controls (pounds/hour) |
|--|---------------------------------|---|---|
| EU #1 | 11.75 | 21.4 | 0.304 |
| EU #2 | 0.550 | 2.75 | 0.304 |
| EU #3 | 8.50 | 17.2 | 0.041 |
| EU #4 | 8.50 | 17.2 | 0.262 |
| EU #5 | 8.50 | 17.2 | 0.142 |
| EU #6 | 4.50 | 11.2 | 0.077 |
| EU #7 | 4.50 | 11.2 | 0.247 |
| EU #8 | 9.58 | 18.6 | 0.327 |
| Stack 9 Stonshield Central Dust Collector EUs #9, 10 & 11 | 11.5 total | 21.1 total | 0.259 total |
| EU #13 | 0.340 | 1.99 | 0.304 |
| Baghouse UT EUs #16 & #17 | 5.00 total | 12.1 total | 0.309 total |
| Stack 10 Central Dust Collector EUs #5, 7, 8 & 12 | 26.1 total | 36.5 total | 0.259 total |

State Rule Applicability - Insignificant Activities

326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the bulk bag unloader shall not exceed the pound per hour emission rate established as E in the following equation:

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

$$E = 4.10 P^{0.67}$$

where E = rate of emission in pounds per hour;
and P = process weight rate in tons per hour

Testing Requirements

There have been no previous stack tests performed and since no emission unit by itself represents more than 40% of the total PM or PM₁₀ emission rates, no new stack testing is proposed.

Compliance Requirements

Permits issued under 326 IAC 2-8 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-8-4. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in Section D of the permit are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also in Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

The compliance monitoring requirements applicable to this source are as follows since each of the emission units has a PM and PM₁₀ emission limit to render the requirements of 326 IAC 2-2 and 326 IAC 2-7 not applicable to the entire source:

The specified stack and/or baghouse have applicable compliance monitoring conditions as specified below:

- (a) Visible emissions notations of the Stack exhausts 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 and 15 shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal. 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. 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. 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. If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.
- (b) Visible emissions notations of the exhaust from Baghouse UT (EU #16 and EU #17) shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal. 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. 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. 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. If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

- (c) The Permittee shall record the pressure drop across Baghouses #1, #2, #4, #5, #6, #7, #8, #11 as well as the Central Dust Collector and the Stonshield Central Dust Collector used in conjunction with the sand blending and bagging processes at least once per day when EU #1, EU #2, EU #4, EU #5, EU #6, EU #7, EU #8, EU #13 as well as EU #9, EU #10 and EU #11 are in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 0.5 and 5.0 inches of water, or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation 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 at least once every six (6) months.

- (d) The Permittee shall record the pressure drop across Baghouse #12, used in conjunction with the aggregate handling processes, at least once per day when EU #15 is in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 0.5 and 4.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation 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 at least once every six (6) months.

- (e) The Permittee shall record the pressure drop across Baghouse UT used in conjunction with the aggregate processes, at least once per day when EU #16 and EU #17 are in operation when exhausting to the atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range of 0.5 and 5.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation 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 at least once every six (6) months.

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

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 emissions unit. Operations may continue only if the event

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

Bag failure can be indicated by a significant drop in the 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.

These monitoring conditions are necessary because the baghouses, dust collectors and polyester felt bags for the sand bagging and blending processes must operate properly to ensure compliance with 326 IAC 2-2, 326 IAC 5-1, 326 IAC 6-3 and 326 IAC 2-8 (FESOP).

Conclusion

The operation of this colored sand blending and bagging source shall be subject to the conditions of the **FESOP 003-19431-00217**.

**Appendix A: Emission Calculations
Baghouse Operations**

Company Name: The StonCor Group, Inc.
Address City IN Zip: 1310 Dividend Road, Fort Wayne, Indiana 46808
FESOP Renewal: F 003-19431
Plt ID: 003-00217
Reviewer: Mark L. Kramer
Application Date: July 29, 2004

| Stack Exhaust # | Unit ID | Control Efficiency (%) | Grain Loading per Actual Cubic foot of Outlet Air (grains/cub. ft.) | Gas or Air Flow Rate (acfm.) | Emission Rate before Controls (lbs/hr) | Emission Rate before Controls (tons/yr) | Emission Rate after Controls (lbs/hr) | Emission Rate after Controls (tons/yr) | Limited Hourly PM Emission Rate (lbs/hr) | Limited Hourly PM-10 Emission Rate (lbs/hr) |
|-----------------|--|------------------------|---|------------------------------|--|---|---------------------------------------|--|--|---|
| 1 | EU #1 | 99.90% | 0.020 | 1776.0 | 0.304 | 1.33 | 0.304 | 1.33 | 5.40 | 2.10 |
| 2 | EU #2 | 99.90% | 0.020 | 1776.0 | 0.304 | 1.33 | 0.304 | 1.33 | 5.40 | 2.10 |
| 3 | EU #3 | 99.9% | n/a | none | 40.6 | 177.8 | 0.041 | 0.178 | 0.720 | 0.279 |
| 4 | EU #4 | 99.90% | 0.020 | 1528.0 | 0.262 | 1.15 | 0.262 | 1.15 | 4.64 | 1.80 |
| 5 | EU #5 | 99.90% | 0.020 | 448.0 | 0.077 | 0.336 | 0.077 | 0.336 | 1.36 | 0.528 |
| 10 | EU #5 | 99.90% | 0.020 | 1512.0 | 64.8 | 283.8 | 0.065 | 0.284 | | |
| 6 | EU #6 | 99.90% | 0.020 | 448.0 | 0.077 | 0.336 | 0.077 | 0.336 | 1.36 | 0.528 |
| 7 | EU #7 | 99.90% | 0.020 | 1060.0 | 0.182 | 0.796 | 0.182 | 0.796 | 3.22 | 1.25 |
| 10 | EU #7 | 99.90% | 0.020 | 1512.0 | 64.8 | 283.8 | 0.065 | 0.284 | | |
| 8 | EU #8 | 99.90% | 0.020 | 1528.0 | 0.262 | 1.15 | 0.262 | 1.15 | 4.64 | 1.80 |
| 10 | EU #8 | 99.90% | 0.020 | 1512.0 | 64.8 | 283.8 | 0.065 | 0.284 | | |
| 9 | EU #9, 10 & 11 | 99.90% | 0.020 | 1512.0 | 0.259 | 1.135 | 0.259 | 1.135 | 4.60 | 1.78 |
| 10 | C | 99.90% | 0.020 | 1512.0 | 259.2 | 1135.30 | 0.259 | 1.14 | 4.60 | 1.78 |
| 10 | EU #12 | 99.90% | 0.020 | 1512.0 | 64.8 | 283.8 | 0.065 | 0.284 | | |
| 11 | EU #13 | 99.90% | 0.020 | 1776.0 | 304.5 | 1333.52 | 0.304 | 1.33 | 5.40 | 2.10 |
| 15 | EU #15 | 99.90% | 0.052 | 1148.0 | 511.7 | 2241.16 | 0.512 | 2.24 | 9.07 | 3.52 |
| UT | EU #16 & 17 | 99.90% | 0.020 | 1800.0 | 308.6 | 1351.54 | 0.309 | 1.35 | 5.47 | 2.12 |
| | Total EU #1 - 17 and the Central Dust Collector | | | | | 6247 | 3.15 | 13.8 | 55.9 | 21.7 |

SC = Stonshield Central Dust Collector (Stack 9) (EU # 9, 10 & 11)

C = Central Dust Collector (Stack 10) (EU #5, 7, 8 & 12)_

UT = Baghouse exhaust inside the building

Methodology

Emission Rate in lbs/hr (after controls) = (grains/cub. ft.) (sq. ft.) ((cub. ft./min.)/sq. ft.) (60 min/hr) (lb/7000 grains)
 Emission Rate in tons/yr = (lbs/hr) (8760 hr/yr) (ton/2000 lb)

Emission Rate in lbs/hr (before controls) = Emission Rate (after controls): (lbs/hr)/(1-control efficiency)
 Emission Rate in tons/yr = (lbs/hr) (8760 hr/yr) (ton/2000 lb)

Those Emission units designated with pneumatic transfer have had the control equipment considered as integral to the process.

Therefore, potential emission before controls equals potential emissions after controls.

The limited hourly PM emission rates were calculated by directly proportioning the controlled PTE of PM of each process to a total of 55.9 pounds per hour of PM, equivalent to 245 tons per year of PM for all significant emission units.

The limited hourly PM-10 emission rates were calculated by directly proportioning the controlled PTE of PM-10 of each process to a total of 21.7 pounds per hour of PM-10, equivalent to 95 tons per year of PM-10 for all significant emission units.