



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: August 29, 2007
RE: Hog Slat, Inc. / M165-23524-00021
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



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100 North Senate Avenue
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Indianapolis, Indiana 46204-2251
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Minor Source Operating Permit OFFICE OF AIR QUALITY

**Hog Slat, Inc.
18506 South Rangeline Road
Universal, Indiana 47884**

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

This permit is issued to the above mentioned company under the provisions of 326 IAC 2-1.1, 326 IAC 2-6.1 and 40 CFR 52.780, with conditions listed on the attached pages.

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 MSOP under 326 IAC 2-6.1.

Operation Permit No.: M165-23524-00021	
Issued by: <i>Original signed by</i> Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: August 29, 2007 Expiration Date: August 29, 2012

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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 and A.2 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 2-5.1-3(c)][326 IAC 2-6.1-4(a)]

The Permittee owns and operates a stationary concrete slab manufacturing plant.

Source Address:	18506 South Rangeline Road, Universal, Indiana 47884
Mailing Address:	P.O. Box 181, Universal, Indiana 47884
General Source Phone Number:	765-828-0828
SIC Code:	3270
County Location:	Vermillion
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Minor Source Operating Permit Program Minor Source, under PSD and Emission Offset Rules Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

A.2 Emission Units and Pollution Control Equipment Summary

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

- (a) One (1) natural gas-fired boiler, identified as AM 65436, with a maximum heat input capacity of 5.25 million British thermal units (MMBTU) per hour, installed in September 1996, and exhausting to stack US2.
- (b) One (1) cement silo, constructed in 1996, identified as US1, with a storage capacity of 132 tons and a maximum throughput rate of 5.9 tons per hour, equipped with a baghouse (identified as UC1) for particulate control.
- (c) Two (2) storage bins, each constructed in 1996, one for storing aggregate (identified as BIN1) and one for storing sand (identified as BIN2), with a maximum storage capacity of 881 tons, each, and a maximum throughput capacity of 12.6 tons per hour, each.
- (d) One (1) weighing operation, constructed in 1996, with a maximum throughput capacity of 10 batches per hour, and each batch consisting of 864 pounds of cement, 1,940 pounds of aggregate, and 2,250 pounds of sand.
- (e) One (1) mixer, constructed in 1996, with a maximum throughput capacity of 10 batches per hour, and each batch consisting of 864 pounds of cement, 1,940 pounds of aggregate, and 2,250 pounds of sand.
- (f) Two (2) casting lines, Line 1 constructed in 1996 and Line 2 constructed in 1997, with a total maximum throughput of 31.1 tons per hour of concrete, each line consisting of the following equipment:
 - (1) One (1) casting machine,
 - (2) One (1) drying area, and

- (3) One (1) stacking area.
- (g) Unpaved roads.

SECTION B GENERAL CONDITIONS

B.1 Definitions [326 IAC 2-1.1-1]

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 2-1.1-1) shall prevail.

B.2 Permit Term [326 IAC 2-6.1-7(a)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]

- (a) This permit, M165-23524-00021, 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

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

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

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

B.7 Duty to Provide Information

- (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

- (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 Notification [326 IAC 2-6.1-5(a)(5)]

- (a) An annual notification shall be submitted by an authorized individual to the Office of Air Quality stating whether or not the source is in operation and in compliance with the terms and conditions contained in this permit.
- (b) The annual notice shall be submitted in the format attached no later than March 1 of each year to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, IN 46204-2251
- (c) The notification 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.

B.10 Preventive Maintenance Plan [326 IAC 1-6-3]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days after issuance of this permit, including the following information on each facility:
 - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If, due to circumstances beyond the Permittee's control, the PMPs cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

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

The PMP extension notification does not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (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.11 Prior Permits Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of permits established prior to M165-23524-00021 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.12 Termination of Right to Operate [326 IAC 2-6.1-7(a)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least ninety (90) days prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-6.1-7.

B.13 Permit Renewal [326 IAC 2-6.1-7]

- (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 2-6.1-7. Such information shall be included in the application for each emission unit at this source. 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
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

- (b) A timely renewal application is one that is:
 - (1) Submitted at least ninety (90) days 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 2-6.1 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.14 Permit Amendment or Revision [326 IAC 2-5.1-3(e)(3)][326 IAC 2-6.1-6]

- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-6.1-6 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
MC 61-53 IGCN 1003
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 shall notify the OAQ within thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]

B.15 Source Modification Requirement

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

B.16 Inspection and Entry

[326 IAC 2-5.1-3(e)(4)(B)][326 IAC 2-6.1-5(a)(4)][IC 13-14-2-2][IC 13-17-3-2][IC 13-30-3-1]

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

- (a) Enter upon the Permittee's premises where a permitted 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.17 Transfer of Ownership or Operational Control [326 IAC 2-6.1-6]

- (a) The Permittee must comply with the requirements of 326 IAC 2-6.1-6 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
MC 61-53 IGCN 1003
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 2-6.1-6(d)(3)]

B.18 Annual Fee Payment [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.
- (b) 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.19 Credible Evidence [326 IAC 1-1-6]

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

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

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

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

C.2 Permit Revocation [326 IAC 2-1.1-9]

Pursuant to 326 IAC 2-1.1-9 (Revocation of Permits), this permit to operate may be revoked for any of the following causes:

- (a) Violation of any conditions of this permit.
- (b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this permit.
- (c) Changes in regulatory requirements that mandate either a temporary or permanent reduction of discharge of contaminants. However, the amendment of appropriate sections of this permit shall not require revocation of this permit.
- (d) Noncompliance with orders issued pursuant to 326 IAC 1-5 (Episode Alert Levels) to reduce emissions during an air pollution episode.
- (e) For any cause which establishes in the judgment of IDEM, the fact that continuance of this permit is not consistent with purposes of this article.

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 November 07, 1996. The fugitive dust control plan is as follows: (1) fugitive dust emissions from unpaved roads shall be controlled by water spray from a tanker truck in conjunction with Tree Sapp (lignum sulfonate) dust absorbent on an as needed basis; (2) concrete walls shall be erected around aggregate and sand storage bins and the heights of material stored in them shall be limited to ten (10) feet or less; and (3) vehicle speeds are limited to less than ten (10) miles per hour.

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

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

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Asbestos Section, Office of Air Quality
100 North Senate Avenue
MC 61-52 IGCN 1003
Indianapolis, Indiana 46204-2251

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The

notifications do not require a certification 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 2-6.1-5(a)(2)]

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

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

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

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

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require 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 not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

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

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements by issuing an order under 326 IAC 2-1.1-11. Any

monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.

Compliance Monitoring Requirements [326 IAC 2-6.1-5(a)(2)]

C.11 Compliance Monitoring [326 IAC 2-1.1-11]

Compliance with applicable requirements shall be documented as required by this permit. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. All monitoring and record keeping requirements not already legally required shall be implemented when operation begins.

C.12 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.13 Instrument Specifications [326 IAC 2-1.1-11]

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

Corrective Actions and Response Steps

C.14 Response to Excursions or Exceedances

- (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; and/or
- (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall maintain the following records:
 - (1) monitoring data;
 - (2) monitor performance data, if applicable; and
 - (3) corrective actions taken.

C.15 Actions Related to Noncompliance Demonstrated by a Stack Test

- (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 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 2-6.1-5(a)(2)]

C.16 Malfunctions Report [326 IAC 1-6-2]

Pursuant to 326 IAC 1-6-2 (Records; Notice of Malfunction):

- (a) A record of all malfunctions, including startups or shutdowns of any facility or emission control equipment, which result in violations of applicable air pollution control regulations or applicable emission limitations shall be kept and retained for a period of three (3) years and shall be made available to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) or appointed representative upon request.
- (b) When a malfunction of any facility or emission control equipment occurs which lasts more than one (1) hour, said condition shall be reported to OAQ, using the Malfunction Report Forms (2 pages). Notification shall be made by telephone or facsimile, as soon as practicable, but in no event later than four (4) daytime business hours after the beginning of said occurrence.
- (c) Failure to report a malfunction of any emission control equipment shall constitute a violation of 326 IAC 1-6, and any other applicable rules. Information of the scope and

expected duration of the malfunction shall be provided, including the items specified in 326 IAC 1-6-2(a)(1) through (6).

- (d) Malfunction is defined as any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner. [326 IAC 1-2-39]

C.17 General Record Keeping Requirements [326 IAC 2-6.1-5]

- (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.18 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]

- (a) 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
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
- (b) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) 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).
- (d) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (a) One (1) natural gas-fired boiler, identified as AM 65436, with a maximum heat input capacity of 5.25 million British thermal units (MMBTU) per hour, installed in September 1996, and exhausting to stack US2.

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

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

D.1.1 Particulate Matter Emissions (PM) [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4(a), the particulate matter emissions from the boiler shall not exceed 0.6 lb/MMBtu.

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (b) One (1) cement silo, constructed in 1996, identified as US1, with a storage capacity of 132 tons and a maximum throughput rate of 5.9 tons per hour, equipped with a baghouse (identified as UC1) for particulate control.

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

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

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

Pursuant to 326 IAC 6-3-2, the allowable particulate emission rate from the cement silo shall not exceed 13.5 pounds per hour when operating at a process weight rate of 5.9 tons per hour. The pounds per hour limitation was calculated with the following equation:

Interpolation and extrapolation of the data for process weight rates 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.

SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (e) One (1) mixer, constructed in 1996, with a maximum throughput capacity of 10 batches per hour, and each batch consisting of 864 pounds of cement, 1,940 pounds of aggregate, and 2,250 pounds of sand.

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

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

D.3.1 Particulate Emissions [326 IAC 6-3]

Pursuant to 326 IAC 6-3-2, the allowable particulate emission rate from the mixing area shall not exceed 35.7 pounds per hour when operating at a process weight rate of 25.3 tons per hour. The pounds per hour limitation was calculated with the following equation:

Interpolation and extrapolation of the data for process weight rates 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
COMPLIANCE BRANCH**

**MINOR SOURCE OPERATING PERMIT
ANNUAL NOTIFICATION**

This form should be used to comply with the notification requirements under 326 IAC 2-6.1-5(a)(5).

Company Name:	Hog Slat, Inc.
Address:	18506 South Rangeline Road
City:	Universal, Indiana 47884
Phone #:	765-828-0828
MSOP #:	M165-23524-00021

I hereby certify that Hog Slat, Inc. is :

still in operation.

no longer in operation.

I hereby certify that Hog Slat, Inc. is :

in compliance with the requirements of MSOP M165-23524-00021.

not in compliance with the requirements of MSOP M165-23524-00021.

Authorized Individual (typed):
Title:
Signature:
Date:

If there are any conditions or requirements for which the source is not in compliance, provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be achieved.

Noncompliance:

MALFUNCTION REPORT

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY FAX NUMBER - 317 233-6865

This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6 and to qualify for the exemption under 326 IAC 1-6-4.

THIS FACILITY MEETS THE APPLICABILITY REQUIREMENTS BECAUSE IT HAS POTENTIAL TO EMIT 25 TONS/YEAR PARTICULATE MATTER ?____, 25 TONS/YEAR SULFUR DIOXIDE ?____, 25 TONS/YEAR NITROGEN OXIDES?____, 25 TONS/YEAR VOC ?____, 25 TONS/YEAR HYDROGEN SULFIDE ?____, 25 TONS/YEAR TOTAL REDUCED SULFUR ?____, 25 TONS/YEAR REDUCED SULFUR COMPOUNDS ?____, 25 TONS/YEAR FLUORIDES ?____, 100TONS/YEAR CARBON MONOXIDE ?____, 10 TONS/YEAR ANY SINGLE HAZARDOUS AIR POLLUTANT ?____, 25 TONS/YEAR ANY COMBINATION HAZARDOUS AIR POLLUTANT ?____, 1 TON/YEAR LEAD OR LEAD COMPOUNDS MEASURED AS ELEMENTAL LEAD ?____, OR IS A SOURCE LISTED UNDER 326 IAC 2-5.1-3(2) ?____. EMISSIONS FROM MALFUNCTIONING CONTROL EQUIPMENT OR PROCESS EQUIPMENT CAUSED EMISSIONS IN EXCESS OF APPLICABLE LIMITATION _____.

THIS MALFUNCTION RESULTED IN A VIOLATION OF: 326 IAC _____ OR, PERMIT CONDITION # _____ AND/OR PERM LIMIT OF _____

THIS INCIDENT MEETS THE DEFINITION OF >MALFUNCTION= AS LISTED ON REVERSE SIDE ? Y N

THIS MALFUNCTION IS OR WILL BE LONGER THAN THE ONE (1) HOUR REPORTING REQUIREMENT ? Y N

COMPANY: _____ PHONE NO. () _____
LOCATION: (CITY AND COUNTY) _____
PERMIT NO. _____ AFS PLANT ID: _____ AFS POINT ID: _____ INSP: _____
CONTROL/PROCESS DEVICE WHICH MALFUNCTIONED AND REASON: _____

DATE/TIME MALFUNCTION STARTED: ____/____/20____ _____ AM / PM

ESTIMATED HOURS OF OPERATION WITH MALFUNCTION CONDITION: _____

DATE/TIME CONTROL EQUIPMENT BACK-IN SERVICE ____/____/20____ _____ AM/PM

TYPE OF POLLUTANTS EMITTED: TSP, PM-10, SO2, VOC, OTHER: _____

ESTIMATED AMOUNT OF POLLUTANT EMITTED DURING MALFUNCTION: _____

MEASURES TAKEN TO MINIMIZE EMISSIONS: _____

REASONS WHY FACILITY CANNOT BE SHUTDOWN DURING REPAIRS:

CONTINUED OPERATION REQUIRED TO PROVIDE ESSENTIAL* SERVICES: _____

CONTINUED OPERATION NECESSARY TO PREVENT INJURY TO PERSONS: _____

CONTINUED OPERATION NECESSARY TO PREVENT SEVERE DAMAGE TO EQUIPMENT: _____

INTERIM CONTROL MEASURES: (IF APPLICABLE) _____

MALFUNCTION REPORTED BY: _____ TITLE: _____
(SIGNATURE IF FAXED)

MALFUNCTION RECORDED BY: _____ DATE: _____ TIME: _____

*SEE PAGE 2

Please note - This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6 and to qualify for the exemption under 326 IAC 1-6-4.

326 IAC 1-6-1 Applicability of rule

Sec. 1. This rule applies to the owner or operator of any facility required to obtain a permit under 326 IAC 2-5.1 or 326 IAC 2-6.1.

326 IAC 1-2-39 "Malfunction" definition

Sec. 39. Any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner.

***Essential services** are interpreted to mean those operations, such as, the providing of electricity by power plants. Continued operation solely for the economic benefit of the owner or operator shall not be sufficient reason why a facility cannot be shutdown during a control equipment shutdown.

If this item is checked on the front, please explain rationale:

Indiana Department of Environmental Management
Office of Air Quality

Technical Support Document (TSD) for a Minor Source Operating Permit

Source Background and Description

Source Name:	Hog Slat, Inc.
Source Location:	18506 South Rangeline Road, Universal, Indiana 47884
County:	Vermillion
SIC Code:	3270
Permit No.:	M165-23524-00021
Permit Reviewer:	ERG/SE

The Office of Air Quality (OAQ) has reviewed the operating permit application from Hog Slat, Inc. relating to the operation of a concrete slab manufacturing plant.

History

On May 29, 1997, Hog Slat, Inc. was issued a state construction permit. On August 17, 2006, Hog Slat, Inc. submitted an application for an initial MSOP.

Emission Units and Pollution Control Equipment:

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

- (a) One (1) natural gas-fired boiler, identified as AM 65436, with a maximum heat input capacity of 5.25 million British thermal units (MMBTU) per hour, installed in September 1996, and exhausting to stack US2.
- (b) One (1) cement silo, constructed in 1996, identified as US1, with a storage capacity of 132 tons and a maximum throughput rate of 5.9 tons per hour, equipped with a baghouse (identified as UC1) for particulate control.
- (c) Two (2) storage bins, each constructed in 1996, one for storing aggregate (identified as BIN1) and one for storing sand (identified as BIN2), with a maximum storage capacity of 881 tons, each, and a maximum throughput capacity of 12.6 tons per hour, each.
- (d) One (1) weighing operation, constructed in 1996, with a maximum throughput capacity of 10 batches per hour, and each batch consisting of 864 pounds of cement, 1,940 pounds of aggregate, and 2,250 pounds of sand.
- (e) One (1) mixer, constructed in 1996, with a maximum throughput capacity of 10 batches per hour, and each batch consisting of 864 pounds of cement, 1,940 pounds of aggregate, and 2,250 pounds of sand.
- (f) Two (2) casting lines, Line 1 constructed in 1996 and Line 2 constructed in 1997, with a total maximum throughput of 31.1 tons per hour of concrete, each line consisting of the following equipment:
 - (1) One (1) casting machine,
 - (2) One (1) drying area, and

- (3) One (1) stacking area.
- (g) Unpaved roads.

Existing Approvals

The source has been operating under the previous approval:

State Construction Permit 165-7104-00021 issued on May 29, 1997.

All terms and conditions of previous permits issued pursuant to permitting programs approved into the state implementation plan have been either incorporated as originally stated, revised, or deleted by this permit. All previous registrations and permits are superseded by this permit.

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

- (a) Baghouse Operating Condition

The CP #165-7104-00021 required the baghouse to be operated at all times when the cement silo was in operation, required pressure drop readings once per day, and quarterly baghouse inspections. Based on AP-42 emission factors and process information provided by the source in the application for MSOP 165-23524-00021, the potential to emit PM and PM10 from silo loading before controls is less than the emission limit pursuant to 326 IAC 6-3-2. Therefore, the silo is expected to be able to comply with the applicable limit without using the control device. The baghouse operating condition and its associated requirements have not been included in this permit.

- (b) Particulate Emission Limitation

The particulate emission limit contained in CP #165-7104-00021 pursuant to 326 IAC 6-3 has been revised based on process weight rates submitted by the Permittee in the application for MSOP 165-23524-00021.

Enforcement Issue

IDEM is aware that equipment has been operated prior to receipt of the proper permit. The subject equipment is listed in this Technical Support Document under the condition entitled "Emission Units and Pollution Control Equipment".

IDEM is reviewing this matter and will take appropriate action. This proposed permit is intended to satisfy the requirements of the construction permit rules.

Stack Summary

Stack ID	Operation	Height (feet)	Diameter (feet)	Flow Rate (acfm)	Temperature (°F)
US2	Boiler	24	1.5	N/A	N/A
UC1	Silo with Baghouse	58	3.2	462	ambient

Emission Calculations

See Appendix A of this document for detailed emission calculations (pages 1 through 6).

County Attainment Status

The source is located in Vermillion County

Pollutant	Status
PM10	Attainment
PM2.5	Attainment
SO ₂	Attainment
NO _x	Attainment
8-hour Ozone	Attainment
CO	Attainment
Lead	Attainment

- (a) Vermillion County has been classified as unclassifiable or attainment for PM2.5. U.S. EPA has not yet established the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 for PM2.5 emissions. Therefore, until the U.S. EPA adopts specific provisions for PSD review for PM2.5 emissions, it has directed states to regulate PM10 emissions as a surrogate for PM2.5 emissions. See the State Rule Applicability – Entire Source section.
- (b) 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 emissions and NO_x emissions are considered when evaluating the rule applicability relating to ozone. Vermillion County has been designated as attainment or unclassifiable for ozone. Therefore, VOC emissions and NO_x 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.
- (c) Vermillion County has been classified as attainment or unclassifiable in Indiana for all other 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.
- (e) On October 25, 2006, the Indiana Air Pollution Control Board finalized a rule revision to 326 IAC 1-4-1 revoking the one-hour ozone standard in Indiana.
- (f) Fugitive Emissions
 Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 or 326 IAC 2-3 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive emissions are not counted toward determination of PSD or Emission Offset applicability.

Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions of the source.

Pollutant	tons/year
PM	153
PM10	46.1
SO ₂	0.01
VOC	0.12
CO	1.89
NO _x	2.25

HAPs	tons/year
Total HAPs	0.14

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of all criteria pollutants is less than 100 tons per year. The source is not subject to the provisions of 326 IAC 2-7. Therefore, the source will be issued an MSOP
- (b) The potential to emit (as defined in 326 IAC 2-7-1(29)) of any single HAP is less than ten (10) tons per year and the potential to emit (as defined in 326 IAC 2-7-1(29)) of a combination of HAPs is less than twenty-five (25) tons per year.
- (c) Fugitive Emissions
 Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-7, fugitive emissions are not counted toward the determination of Part 70 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	153
PM10	46.1
SO ₂	0.01
VOC	0.12
CO	1.89
NOx	2.25
Total HAPs	0.14

- (a) This existing source is not a major stationary source under 326 IAC 2-2 (Prevention of Significant Deterioration) because no attainment regulated pollutant is emitted at a rate of 250 tons per year or greater and it is not in one of the 28 listed source categories.
- (b) These emissions were based on the MSOP application submitted by the company.

Potential to Emit After Issuance

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 MSOP and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

Process/emission unit	Potential To Emit (tons/year)						
	PM	PM10	SO ₂	VOC	CO	NOx	HAPs
Boiler	0.04	0.17	0.01	0.12	1.89	2.25	0.04
Concrete Batching	80.4	27.5	--	--	--	--	9.33E-02
Unpaved Roads	72.4	18.4	--	--	--	--	--
Storage Bins	0.03	9.04E-03	--	--	--	--	--
Total Emissions	153	46.1	0.01	0.12	1.89	2.25	0.14

- (a) This existing stationary source is not major for PSD because the emissions of each regulated pollutant are less than two hundred fifty (<250) tons per year, and it is not one of the twenty-eight (28) listed source categories.
- (b) Fugitive Emissions
Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 or 326 IAC 2-3 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive emissions are not counted toward the determination of PSD or Emission Offset applicability.

Federal Rule Applicability

- (a) The requirements of 40 CFR 60, Subpart D (New Source Performance Standards for Fossil-Fuel-Fired Steam Generators for Which Construction is Commenced After August 17, 1971) and Subpart Da (New Source Performance Standards for Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978) are not included in this permit for this source, because the boiler has a heat input capacity less than 250 million Btu per hour.
- (b) The requirements of 40 CFR 60, Subpart Db (New Source Performance Standards for Industrial-Commercial-Institutional Steam Generating Units) are not included in this permit for this source, because the boiler has a heat input capacity less than 100 million Btu per hour.
- (c) The requirements of 40 CFR 60, Subpart Dc (New Source Performance Standards for Small Industrial-Commercial-Institutional Steam Generating Units) are not included in this permit for this source, because the boiler has a heat input capacity less than 10 million Btu per hour.
- (d) The requirements of 40 CFR 60, Subpart F (New Source Performance Standards for Portland Cement Plants) are not included in this permit for this source, because this source is not a Portland cement plant as defined in 40 CFR 60.61(a).
- (e) The requirements of 40 CFR 60, Subpart OOO (New Source Performance Standards for Nonmetallic Mineral Processing Plants) are not included in this permit for this source, because this source is not a nonmetallic mineral processing plant as defined in 40 CFR 60.671.
- (f) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in the permit for this source.
- (g) The requirements of 40 CFR 63, Subpart LLL (National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry) are not included in this permit for this source, because this source is not a Portland cement plant as defined in 40 CFR 63.1341.
- (h) The requirements of 40 CFR 63, Subpart DDDDD (National Emission Standards for Hazardous Air Pollutants from Industrial, Commercial, and Institutional Boilers and Process Heaters) are not included in this permit for this source, because this source is not a major source of HAPs.
- (i) There are no National Emission Standards for Hazardous Air Pollutants (NESHAP) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) included in the permit for this source.

State Rule Applicability - Entire Source

326 IAC 2-2 (Prevention of Significant Deterioration)

This source was originally constructed in 1996 in Vermillion County and is not one of 28 listed source categories under 326 IAC 2-2. The potential to emit all regulated pollutants is less than 250 tons per year. Therefore, this source is not subject to the requirements of 326 IAC 2-2.

326 IAC 2-6 (Emission Reporting)

This source is located in Vermillion County, is not required to operate under a Part 70 permit, and has potential lead emissions less than five (5) tons per year. Therefore, pursuant to 326 IAC 2-6-1(b), the source is only subject to additional information requests as provided in 326 IAC 2-6-5.

326 IAC 5-1 (Opacity Limitations)

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

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

326 IAC 6-4 (Fugitive Dust)

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

326 IAC 6-5 (Fugitive Particulate Emission Limitations)

Pursuant to 326 IAC 6-5, the Permittee shall control fugitive particulate matter emissions according to the plan submitted on November 7, 1996. The fugitive dust control plan is as follows: (1) fugitive dust emissions from unpaved roads shall be controlled by water spray from a tanker truck in conjunction with Tree Sapp (lignum sulfonate) dust absorbent on an as needed basis; (2) concrete walls shall be erected around aggregate and sand storage bins and the heights of material stored in them shall be limited to ten (10) feet or less; and (3) vehicle speeds are limited to less than ten (10) miles per hour.

State Rule Applicability – Boiler

326 IAC 6-2 (Particulate Emission Limitations for Sources of Indirect Heating)

The boiler is subject to 326 IAC 6-2-4, because it was constructed after September 21, 1983 in Vermillion County. Pursuant to 326 IAC 6-2-4 (Particulate emission limitations for sources of indirect heating: emission limitations for facilities specified in 326 IAC 6-2-1(d)), particulate emissions from the boiler must be calculated using the following equation:

$$P_t = \frac{1.09}{Q^{0.26}}$$

Where:

P_t = pounds of particulate matter emitted per million Btu heat input (lb/MMBtu)

Q = total source operating capacity (1 boiler with a heat input of 5.25 MMBtu/hour)

$$P_t = \frac{(1.09)}{(5.25)^{0.26}}$$

$$P_t = 0.71 \text{ lb/MMBtu}$$

Pursuant to 326 IAC 6-2-4(a), for Q less than 10 mmBtu/hr, P_t shall not exceed 0.6 lbs/MMBtu. Therefore, the particulate matter emissions from the boiler shall not exceed 0.6 lbs/MMBtu.

326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations)

The boiler does not have the potential to emit twenty-five (25) tons per year or ten (10) pounds per hour of sulfur dioxide; therefore, it is not subject to the requirements of 326 IAC 7-1.1.

326 IAC 8-1-6 (New Facilities; General Requirements)

The boiler does not have the potential to emit twenty-five (25) tons or more of VOC per year. Therefore, the boiler is not subject to the requirements of 326 IAC 8-1-6.

State Rule Applicability – Cement Silo

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

Pursuant to 326 IAC 6-3-2, the allowable particulate emission rate from the cement silo shall not exceed 13.5 pounds per hour when operating at a process weight rate of 5.9 tons per hour. The pounds per hour limitation was calculated with the following equation:

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

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

The potential to emit PM from the cement silo is less than 13.5 pounds per hour (see TSD Appendix A, page 2 of 6). Therefore, the cement silo is able to comply with this rule.

State Rule Applicability – Mixing Area

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

Pursuant to 326 IAC 6-3-2, the allowable particulate emission rate from the mixing area shall not exceed 35.7 pounds per hour when operating at a process weight rate of 25.3 tons per hour. The pounds per hour limitation was calculated with the following equation:

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

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

The potential to emit PM from the mixing area is less than 35.7 pounds per hour (see TSD Appendix A, page 2 of 6). Therefore, the mixing area is able to comply with this rule.

State Rule Applicability – Weighing Operation

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

Pursuant to 326 IAC 6-3-1(b)(14), the weighing operation is not subject to the requirements of 326 IAC 6-3 because it has potential particulate emissions less than five hundred fifty-one thousandths (0.551) pound per hour.

State Rule Applicability – Casting Lines

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

The casting lines process the wet concrete mixture after it has been mixed. The casting machines are used to transfer the wet concrete mixture to molds, the molds are then moved to the drying area. In the drying area, the molds are covered with tents, and steam from the boiler is directed into the tents to cure the concrete. Once the concrete slabs have cured and dried, they are stacked in the stacking area. This process is not a source of particulate, VOC, CO, NO_x, SO₂, or HAP emissions.

Recommendation

The staff recommends to the Commissioner that the MSOP 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 application for the purposes of this review was received on August 17, 2006.

Conclusion

The operation of this concrete slab manufacturing plant shall be subject to the conditions of the attached MSOP No. 165-23524-00021.

Appendix A: Emission Calculations
Natural Gas Combustion Emissions from Boiler

Company Name: Hog Slat, Inc.

Address: 18506 South Rangeline Road, Universal, Indiana 47884

MSOP: 165-23524-00021

Reviewer: ERG/SE

Date: May 10, 2007

Total Heat Input Capacity (MMBtu/hr) 5.25

Potential Throughput (MMscf/yr) 45.1
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	Pollutant						
Emission Factor (lbs/MMscf)	PM*	PM10*	SO ₂	NO _x **	VOC	CO	HAPs
Potential to Emit (tons/yr)	0.04	0.17	0.01	2.25	0.12	1.89	0.04

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

**Emission factor for NO_x (Uncontrolled) = 100 lb/MMscf.

Emission factors are from AP-42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, and 1.4-4, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (7/98).

All Emission factors are based on normal firing.

Methodology

Potential Throughput (MMscf/yr) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMscf/1,020 MMBtu

PTE (tons/yr) = Potential Throughput (MMscf/yr) x Emission Factor (lbs/MMscf) x 1 ton/2,000 lbs

**Appendix A: Emission Calculations
Particulate Emissions from Concrete Batching**

Company Name: Hog Slat, Inc.
Address: 18506 South Rangeline Road, Universal, Indiana 47884
MSOP: 165-23524-00021
Reviewer: ERG/SE
Date: May 10, 2007

Process	Throughput Capacity (tons/hr)	PM Emission Factor (lb/ton)	PM10 Emission Factor (lb/ton)	PTE PM (lbs/hr)	PTE PM10 (lbs/hr)	PTE PM (tons/yr)	PTE PM10 (tons/yr)
Sand Loading to Outside Storage Bins	12.6	0.0021	0.00099	0.03	0.01	0.12	0.05
Aggregate Loading to Outside Storage Bins	12.6	0.0069	0.0033	0.09	0.04	0.38	0.18
Cement Unloading to Silo	5.9	0.72	0.46	4.25	2.71	18.6	11.9
Deposit Sand in Inside Storage Bins via Front-end Loader	12.6	0.0021	0.00099	0.03	0.01	0.12	0.05
Deposit Aggregate in Inside Storage Bins via Front-end Loader	12.6	0.0069	0.0033	0.09	0.04	0.38	0.18
Cement/Sand/Aggregate Batched and Weighed	25.3	0.0051	0.0024	0.13	0.06	0.56	0.27
Cement/Sand/Aggregate to Mixer via Conveyor Belt	25.3	0.544	0.134	13.7	3.39	60.2	14.8
Total				18.4	6.27	80.4	27.5

The emission factors are from AP-42, Chapter 11.12, Table 11.12-2 (6/06).

Methodology

PTE PM/PM10 (lbs/hr) = Throughput Capacity (tons/hr) * Total HAPs Emission Factor (lb/ton)

PTE PM/PM10 (tons/yr) = Throughput Capacity (tons/hr) * Total HAPs Emission Factor (lb/ton) * 8,760 hrs/yr * 1 ton/2,000 lbs

**Appendix A: Emission Calculations
Particulate Emissions from Concrete Batching**

Company Name: Hog Slat, Inc.

Address: 18506 South Rangeline Road, Universal, Indiana 47884

MSOP: 165-23524-00021

Reviewer: ERG/SE

Date: May 10, 2007

Process	Throughput Capacity (tons/hr)	Total HAPs Emission Factor (lb/ton)*	PTE Total HAPs (tons/yr)
Sand Loading to Outside Storage Bins	12.6	2.34E-04	1.29E-02
Aggregate Loading to Outside Storage Bins	12.6	2.34E-04	1.29E-02
Cement Unloading to Silo	5.9	2.34E-04	6.06E-03
Deposit Sand in Inside Storage Bins via Front-end Loader	12.6	2.34E-04	1.29E-02
Deposit Aggregate in Inside Storage Bins via Front-end Loader	12.6	2.34E-04	1.29E-02
Cement/Sand/Aggregate Batched and Weighed	25.3	8.67E-05	9.60E-03
Cement/Sand/Aggregate to Mixer via Conveyor Belt	25.3	2.34E-04	2.59E-02
		Total	9.33E-02

*The emission factors are from AP-42, Chapter 11.12, Table 11.12-8 (6/06).

The emission factor, 2.34E-04 lb/ton, shown above is the sum of all metal emission factors for cement silo filling provided in AP-42.

The emission factor, 8.67E-05 lb/ton, shown above is the sum of all metal emission factors for central mix batching provided in AP-42.

Because there were no HAP emission factors available in AP-42 for the other concrete batching processes, 2.34E-04 lb/ton is used as a worst-case scenario.

Methodology

PTE Total HAPs (tons/yr) = Throughput Capacity (tons/hr) * Total HAPs Emission Factor (lb/ton) * 8,760 hrs/yr * 1 ton/2,000 lbs

Appendix A: Emission Calculations
Emissions Due to Wind Erosion of Outside Storage Bins

Company Name: Hog Slat, Inc.

Address: 18506 South Rangeline Road, Universal, Indiana 47884

MSOP: 165-23524-00021

Reviewer: ERG/SE

Date: May 10, 2007

The following calculations determine the amount of emissions created by wind erosion of storage bins, based on 8,760 hours of use and AP-42 (Pre 1983 Edition), Chapter 11.2.3.

$$E_f = \frac{1.7 * (s/1.5) * (365-p)}{235 * (f/15)} \quad \text{where:}$$

	s (% silt)	p	f	Emission Factor (lb/acre/day)
Sand	1.6	125	15	1.85
Aggregate	1.6	125	15	1.85

p=days of rain greater than or equal to 0.01 inches

f=% of wind greater than or equal to 12 mph

$$\text{PTE of PM (storage)} = \frac{E_f * sc * (40 \text{ cuft/ton}) * (365 \text{ day/yr})}{(2000 \text{ lb/ton}) * (43560 \text{ sqft/acre}) * (25 \text{ ft})}$$

	sc (tons storage capacity)	PTE of PM (tons/yr)
Sand	1,040	0.01
Aggregate	1,040	0.01
Total	2,080	0.03

PM-10 = 35% of PM:

	PTE of PM10 (tons/yr)
Sand	4.52E-03
Aggregate	4.52E-03
Total	9.04E-03

**Appendix A: Emission Calculations
Fugitive Emissions From Unpaved Roads**

Company Name: Hog Slat, Inc.
Address: 18506 South Rangeline Road, Universal, Indiana 47884
MSOP: 165-23524-00021
Reviewer: ERG/SE
Date: May 10, 2007

1. Emission Factors:

According to AP42, Chapter 13.2.2 - Unpaved Roads (11/06), the PM/PM10 emission factors for unpaved roads can be estimated from the following equation:

$$E = k \times (s/12)^a \times (w/3)^b \times ((365-p)/365)$$

where:

E = emission factor (lb/vehicle mile traveled)	
s = surface material silt content (%) =	4.8 % (AP-42, Table 13.2.2-1)
w = mean vehicle weight (tons) =	40.0 tons (provided by the source)
k = empirical constant =	4.9 for PM and 1.5 for PM10
a = empirical constant =	0.7 for PM and 0.9 for PM10
b = empirical constant =	0.45
p = days of rain greater than or equal to 0.01 inches	125 days

PM Emission Factor = $4.9 \times (4.8/12)^{0.7} \times (40.0/3)^{0.45} \times ((365-125)/365)$ = **5.44 lbs/mile**

PM10 Emission Factor = $1.5 \times (4.8/12)^{0.9} \times (40.0/3)^{0.45} \times ((365-125)/365)$ = **1.39 lbs/mile**

2. Potential to Emit (PTE) of PM/PM10 from Unpaved Roads:

Number of One-way Trips per Hour*	Miles per Trip*	Vehicle Miles Traveled (VMT) (miles/hr)	Vehicle Miles Traveled (VMT) (miles/yr)	PTE PM (tons/yr)	PTE PM10 (tons/yr)
4.60	0.33	3.04	26,595	72.4	18.4

*Provided by the source

Methodology

VMT (miles/hr) = Number of One-way Trips per Hour x Miles per Trip x 2 (One-way trips/Round Trip)

VMT (miles/yr) = VMT (miles/hr) x 8,760 hrs/yr

PTE of PM/PM10 (tons/yr) = VMT (miles/yr) x Emission Factor (lbs/mile) x 1 ton/2,000 lbs

**Appendix A: Emission Calculations
Emission Summary**

Company Name: Hog Slat, Inc.

Address: 18506 South Rangeline Road, Universal, Indiana 47884

MSOP: 165-23524-00021

Reviewer: ERG/SE

Date: May 10, 2007

Unlimited PTE (tons/yr)

	PM	PM10	SO ₂	NOx	VOC	CO	HAPs
Boiler	0.04	0.17	0.01	2.25	0.12	1.89	0.04
Concrete Batching	80.4	27.5	--	--	--	--	9.33E-02
Unpaved Roads	72.4	18.4	--	--	--	--	--
Storage Bins	0.03	9.04E-03	--	--	--	--	--
Total	153	46.1	0.01	2.25	0.12	1.89	0.14