



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

100 N. Senate Avenue • Indianapolis, IN 46204

(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov

Michael R. Pence
Governor

Thomas W. Easterly
Commissioner

TO: Interested Parties / Applicant

DATE: November 18, 2013

RE: AM Stabilizers / 127-33427-00127

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

Notice of Decision: Approval - Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-15-5-3, this permit is effective immediately, unless a petition for stay of effectiveness is filed and granted according to IC 13-15-6-3, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3 and IC 13-15-6-1 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) calendar days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

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

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

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

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

Enclosures
FNPER.dot 6/13/13





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Michael R. Pence
Governor

Thomas W. Easterly
Commissioner

New Source Construction and Minor Source Operating Permit OFFICE OF AIR QUALITY

**AM Stabilizers
705 Silhavy Rd
Valparaiso, Indiana 46383**

(herein known as the Permittee) is hereby authorized to construct and 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 2-5.1, 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.: M127-33427-00127 | |
| Issued by:  Tripurari P. Sinha, Ph. D., Section Chief Permits Branch Office of Air Quality | Issuance Date: November 18, 2013 Expiration Date: November 18, 2018 |

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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 stationary polymer stabilizers manufacturer.

| | |
|------------------------------|---|
| Source Address: | 705 Silhavy Rd, Valparaiso, Indiana 46383 |
| General Source Phone Number: | 219-844-3980 |
| SIC Code: | 2899 |
| County Location: | Porter |
| Source Location Status: | Nonattainment for ozone Attainment for all other 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) Mill Line #1, approved for construction in 2013, with a process capacity of 670 pounds per hour, exhausting to Stack #1. The line is comprised of the following:
 - (1) One (1) bulk/bag unloading station, identified as Raw Material Bulk/Bag Station #1;
 - (2) One (1) mixer, identified as Mixer #1, with a volume of 100 cubic feet, and a capacity of 670 pounds per hour, with emissions exhausting into Surge Bin #1.
 - (3) One (1) surge bin, identified as Surge Bin #1, with a volume of 460 cubic feet, exhausting through Bin Vent #1;
 - (4) One (1) bulk loading station, identified as Bulk Pack # 1;
 - (5) One (1) bag loading station, identified as Bag Pack # 1.
- (b) Mill Line #2, approved for construction in 2013, with a process capacity of 1,005 pounds per hour, exhausting to Stack #1. The line is comprised of the following:
 - (1) One (1) bulk/bag unloading station, identified as Raw Material Bulk/Bag Station #2;
 - (2) One (1) mixer, identified as Mixer #2, with a volume of 150 cubic feet, and a capacity of 1005 pounds per hour, with emissions exhausting into Surge Bin #2;
 - (3) One (1) surge bin, identified as Surge Bin #2, with a volume of 460 cubic feet, exhausting through Bin Vent #2;

- (4) One (1) bulk loading station, identified as Bulk Pack # 2;
- (5) One (1) bag loading station, consisting of a two bag operation, identified as Bag Pack # 2.

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:

- (c) Ten (10) natural gas space heaters, each with a maximum heat input capacity of 175,000 Btu per hour, approved for construction in 2013, exhausting to the atmosphere.

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 Revocation of Permits [326 IAC 2-1.1-9(5)]

Pursuant to 326 IAC 2-1.1-9(5)(Revocation of Permits), the Commissioner may revoke this permit if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.

B.3 Affidavit of Construction [326 IAC 2-5.1-3(h)] [326 IAC 2-5.1-4]

This document shall also become the approval to operate pursuant to 326 IAC 2-5.1-4 when prior to the start of operation, the following requirements are met:

- (a) The attached Affidavit of Construction shall be submitted to the Office of Air Quality (OAQ), verifying that the emission units were constructed as proposed in the application or the permit. The emission units covered in this permit may begin operating on the date the Affidavit of Construction is postmarked or hand delivered to IDEM if constructed as proposed.
- (b) If actual construction of the emission units differs from the construction proposed in the application, the source may not begin operation until the permit has been revised pursuant to 326 IAC 2 and an Operation Permit Validation Letter is issued.
- (c) The Permittee shall attach the Operation Permit Validation Letter received from the Office of Air Quality (OAQ) to this permit.

B.4 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, M127-33427-00127, 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 13-15-3-3. 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.5 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.6 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.7 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.8 Property Rights or Exclusive Privilege

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

B.9 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. 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.10 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 and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 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.11 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) no later than ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, including the following information on each facility:
 - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

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

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

The Permittee shall implement the PMPs.

- (b) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions.
- (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 Prior Permits Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of permits established prior to M127-33427-00127 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.13 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 one hundred twenty (120) days prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-6.1-7.

B.14 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 an affirmation that the statements in the application are true and complete by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

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

- (b) A timely renewal application is one that is:
 - (1) Submitted at least one hundred twenty (120) 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, pursuant to 326 IAC 2-6.1-4(b), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.15 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
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
- (c) The Permittee shall notify the OAQ no later than thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]

B.16 Source Modification Requirement

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

**B.17 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.18 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
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

The application which shall be submitted by the Permittee does require an affirmation that the statements in the application are true and complete 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.19 Annual Fee Payment [326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees due no later than thirty (30) calendar days of receipt of a bill from IDEM, OAQ,.
- (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.20 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 construct and 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 5-1-1 (Applicability) and 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

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

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

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

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

All required notifications shall be submitted to:

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

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

- (e) **Procedures for Asbestos Emission Control**
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Demolition and Renovation**
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) **Indiana Licensed Asbestos Inspector**
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Licensed 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) For performance testing required by this permit, a test protocol, except as provided elsewhere in this permit, shall be submitted to:

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

no later than thirty-five (35) days prior to the intended test date.
- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date.
- (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 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. The analog instrument shall be capable of measuring values outside of the normal range.
- (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.13 Response to Excursions or Exceedances

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

- (a) The Permittee shall take reasonable response steps to restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing excess emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction. The response may include, but is not limited to, the following:
 - (1) initial inspection and evaluation;
 - (2) recording that operations returned or are returning to normal without operator action (such as through response by a computerized distribution control system); or
 - (3) any necessary follow-up actions to return operation to normal or usual manner of operation.
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
 - (1) monitoring results;
 - (2) review of operation and maintenance procedures and records; and/or
 - (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.

- (e) The Permittee shall record the reasonable response steps taken.

C.14 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 submit a description of its response actions to IDEM, OAQ, no later than seventy-five (75) days after the date of the test.
- (b) A retest to demonstrate compliance shall be performed no later than one hundred eighty (180) days after the date of the test. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred eighty (180) days is not practicable, IDEM, OAQ may extend the retesting deadline
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

Record Keeping and Reporting Requirements [326 IAC 2-6.1-5(a)(2)]

C.15 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.16 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, for all record keeping requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of

permit issuance or the date of initial start-up, whichever is later, to begin such record keeping.

C.17 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 and Enforcement Branch, 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) The first report shall cover the period commencing on the date of issuance of this permit or the date of initial start-up, whichever is later, and ending on the last day of the reporting period. Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit, "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (a) Mill Line #1, approved for construction in 2013, with a process capacity of 670 pounds per hour, exhausting to Stack #1. The line is comprised of the following:
 - (1) One (1) bulk/bag unloading station, identified as Raw Material Bulk/Bag Station #1;
 - (2) One (1) mixer, identified as Mixer #1, with a volume of 100 cubic feet, and a capacity of 670 pounds per hour, with emissions exhausting into Surge Bin #1.
 - (3) One (1) surge bin, identified as Surge Bin #1, with a volume of 460 cubic feet, exhausting through Bin Vent #1;
 - (4) One (1) bulk loading station, identified as Bulk Pack # 1;
 - (5) One (1) bag loading station, identified as Bag Pack # 1.
- (b) Mill Line #2, approved for construction in 2013, with a process capacity of 1,005 pounds per hour, exhausting to Stack #1. The line is comprised of the following:
 - (1) One (1) bulk/bag unloading station, identified as Raw Material Bulk/Bag Station #2;
 - (2) One (1) mixer, identified as Mixer #2, with a volume of 150 cubic feet, and a capacity of 1005 pounds per hour, with emissions exhausting into Surge Bin #2;
 - (3) One (1) surge bin, identified as Surge Bin #2, with a volume of 460 cubic feet, exhausting through Bin Vent #2;
 - (4) One (1) bulk loading station, identified as Bulk Pack # 2;
 - (5) One (1) bag loading station, consisting of a two bag operation, identified as Bag Pack # 2.

(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 [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the unload stations, mixers, surge bins and packout stations shall not exceed the indicated emission rates pounds per hour when operating at the specified process weight rates given below:

| Facility | Process Weight Rate (tons per hour) | 326 IAC 6-3-2 Allowable PM Emission Rate (pounds per hour) |
|-------------------------------------|--|--|
| LINE 1 | | |
| Raw Material Bulk/Bag Station #1 | 0.335 | 1.97 |
| Mixer #1 | 0.335 | 1.97 |
| Surge Bin #1 | 0.335 | 1.97 |
| Bulk Pack #1 | 0.167 | 1.23 |
| Bag Pack #1 | 0.167 | 1.23 |
| LINE 2 | | |
| Raw Material Bulk/Bag Station #2 | 0.502 | 2.58 |
| Mixer #2 | 0.502 | 2.58 |
| Surge Bin #2 | 0.502 | 2.58 |
| Bulk Pack #2 | 0.251 | 1.62 |
| Bag Pack #2 | 0.251 | 1.62 |

Interpolation for the 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

D.1.2 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan is required for Mixer # 1 and Mixer #2 and the control device. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

Compliance Determination Requirements

D.1.3 Particulate Control [326 IAC 6-3-2(d)]

- (a) In order to comply with Condition D.1.1, the baghouse for particulate control shall be in operation and control emissions from Mixer # 1 and Mixer #2 at all times that either mill line is in operation.
- (b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

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

D.1.4 Visible Emissions Notations

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

Record Keeping and Reporting Requirements [326 IAC 2-6.1-5(a)(2)]

D.1.5 Record Keeping Requirement

- (a) To document the compliance status with Condition D.1.4, the Permittee shall maintain daily records of the visible emission notations of the baghouse stack exhaust. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of a visible emission notation (e.g., the process did not operate that day).
- (b) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the record keeping required by this condition

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT 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: | AM Stabilizers |
| Address: | 705 Silhavy Rd |
| City: | Valparaiso, Indiana 46383 |
| Phone #: | 219-844-3980 |
| MSOP #: | M127-33427-00127 |

I hereby certify that AM Stabilizers is :

I hereby certify that AM Stabilizers is :

- ☐ still in operation.
☐ no longer in operation.
☐ in compliance with the requirements of
MSOP M127-33427-00127.
☐ not in compliance with the requirements of MSOP
M127-33427-00127.

| |
|---------------------------------------|
| 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
COMPLIANCE AND ENFORCEMENT BRANCH
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 ?_____, 100 TONS/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 PERMIT 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:

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

AM Stabilizers
705 Silhavy Rd
Valparaiso, Indiana 46383

Affidavit of Construction

I, _____, being duly sworn upon my oath, depose and say:
(Name of the Authorized Representative)

1. I live in _____ County, Indiana and being of sound mind and over twenty-one (21) years of age, I am competent to give this affidavit.
2. I hold the position of _____ for _____.
(Title) (Company Name)
3. By virtue of my position with _____, I have personal
(Company Name)
knowledge of the representations contained in this affidavit and am authorized to make
these representations on behalf of _____.
(Company Name)
4. I hereby certify that AM Stabilizers 705 Silhavy Rd, Valparaiso, Indiana 46383, completed construction of the stationary polymer stabilizers manufacturer on _____ in conformity with the requirements and intent of the construction permit application received by the Office of Air Quality on **Reviewer: Insert date application received at IDEM** and as permitted pursuant to New Source Construction Permit and Minor Source Operating Permit No. M127-33427-00127, Plant ID No. 127-00127 issued on _____.
5. **Permittee, please cross out the following statement if it does not apply:** Additional (operations/facilities) were constructed/substituted as described in the attachment to this document and were not made in accordance with the construction permit.

Further Affiant said not.

I affirm under penalties of perjury that the representations contained in this affidavit are true, to the best of my information and belief.

Signature _____
Date _____

STATE OF INDIANA)
)SS

COUNTY OF _____)

Subscribed and sworn to me, a notary public in and for _____ County and State of Indiana
on this _____ day of _____, 20 _____. My Commission expires: _____.

Signature _____
Name _____ (typed or printed)

Indiana Department of Environmental Management Office of Air Quality

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

Source Description and Location

| | |
|-----------------------|--------------------------------------|
| Source Name: | AM Stabilizers |
| Source Location: | 705 Silhavy Rd, Valparaiso, IN 46383 |
| County: | Porter |
| SIC Code: | SIC numbers |
| Operation Permit No.: | M127-33427-00127 |
| Permit Reviewer: | James Mackenzie |

Public Notice Information

On October 21, 2013, the Office of Air Quality (OAQ) had a notice published in Chesterton Tribune, in Chesterton, Indiana, stating that AM Stabilizers had applied for an operating permit for a new stationary polymer stabilizers manufacturing operation. The notice also stated that OAQ proposed to issue a permit for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

Comments Received

On October 21, 2013, the IDEM received comments from AM Stabilizers, regarding the draft version of the permit available during the period of Public Notice.

The IDEM does not amend the Technical Support Document (TSD). The TSD is maintained to document the original review. This addendum to the TSD is used to document responses to comments and changes made from the time the permit was drafted until a final decision is made.

The summary of the comments and IDEM, OAQ responses, including changes to the permit (language deleted is shown in ~~strikeout~~ and language added is shown in **bold**) are as follows:

Comments & Changes

COMMENT 1: The Permittee proposes that a Standard Industrial Classification (SIC) code other than that listed in the permit documents be employed for a more accurate reflection of the activity at the source. Specifically, the Permittee requests that the SIC code 2899 be used.

RESPONSE: A change from SIC code 2819 (Industrial Inorganic Chemicals, not elsewhere classified) to SIC Code 2899 (Chemicals and Chemical Preparations, not elsewhere classified) will cause no substantive change to the permit. The SIC code is revised in Section A.1 of the permit as follows:

A.1 General Information [326 IAC 2-5.1-3(c)][326 IAC 2-6.1-4(a)]

... ..

SIC Code: ~~2849~~ **2899**

... ..

COMMENT 2: The Permittee requests revision of the descriptive listing for Bag Pack #2 station in order to reflect simultaneous capabilities of two bags.

RESPONSE: The permit is revised as follows in both Section A.2 and Section D.1 of the permit as follows:

b) Mill Line #2, approved for construction in 2013, with a process capacity of 1,005 pounds per hour, exhausting to Stack #1. The line is comprised of the following:

... ..

(5) One (1) bag loading station, **consisting of a two bag operation**, identified as Bag Pack # 2.

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

**Technical Support Document (TSD) for a
New Source Construction
Minor Source Operating Permit (MSOP)**

| |
|--|
| Source Description and Location |
|--|

| | |
|------------------------------|---|
| Source Name: | AM Stabilizers |
| Source Location: | 705 Silhavy Rd, Valparaiso, IN 46383 |
| County: | Porter |
| SIC Code: | 2189 |
| Operation Permit No.: | M127-33427-00127 |
| Permit Reviewer: | James Mackenzie |

On July 12, 2013, the Office of Air Quality (OAQ) received an application from AM Stabilizers related to the construction and operation of a new stationary polymer stabilizers production operation.

| |
|---------------------------|
| Existing Approvals |
|---------------------------|

There have been no previous approvals issued to this source.

| |
|---------------------------------|
| County Attainment Status |
|---------------------------------|

The source is located in Porter County.

Sec. 65. The following attainment status designations are applicable to Porter County:

| Pollutant | Designation |
|---|--|
| SO ₂ | Cannot be classified for the area bounded on the north by Lake Michigan; on the west by the Lake County and Porter County line; on the south by I-80 and I-90; and on the east by the LaPorte County and Porter County line. The remainder of Porter County is better than national standards. |
| CO | Unclassifiable or attainment effective November 15, 1990. |
| O ₃ | On June 11, 2012, the U.S. EPA designated Porter County nonattainment, for the 8-hour ozone standard. |
| PM ₁₀ | Unclassifiable effective November 15, 1990. |
| NO ₂ | Cannot be classified or better than national standards. |
| Pb | Not designated. |
| Unclassifiable or attainment effective February 6, 2012, for PM2.5. | |

(Air Pollution Control Board; 326 IAC 1-4-65; filed Dec 26, 2007, 1:43 p.m.: 20080123-IR-326070308FRA)

- (a) **Ozone Standards**
U.S. EPA, in the Federal Register Notice 77 FR 112 dated June 11, 2012, has designated Porter as nonattainment for ozone. On August 1, 2012 the air pollution control board issued an emergency rule adopting the U.S. EPA's designation. This rule became effective, August 9, 2012. IDEM, does not agree with U.S. EPA's designation of nonattainment. IDEM filed a suit against US EPA in the US Court of Appeals for the DC Circuit on July 19, 2012. However, in order to ensure that sources are not potentially liable for a violation of the Clean Air Act, the OAQ is following the U.S. EPA's designation. 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 ozone. Therefore, VOC and NO_x emissions were evaluated pursuant to the requirements of Emission Offset, 326 IAC 2-3. See the State Rule Applicability – Entire Source section.

- (b) PM_{2.5}
Porter County has been classified as attainment for PM_{2.5}. On May 8, 2008, U.S. EPA promulgated the requirements for Prevention of Significant Deterioration (PSD) for PM_{2.5} emissions. These rules became effective on July 15, 2008. On May 4, 2011 the air pollution control board issued an emergency rule establishing the direct PM_{2.5} significant level at ten (10) tons per year. This rule became effective, June 28, 2011.. Therefore, direct PM_{2.5}, SO₂, 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) Other Criteria Pollutants
Porter County has been classified as attainment or unclassifiable in Indiana for SO₂, PM₁₀, CO, NO₂ and Pb. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

Fugitive Emissions

- (a) The fugitive emissions of criteria pollutants and hazardous air pollutants are counted toward the determination of 326 IAC 2-6.1 (Minor Source Operating Permits) applicability.
- (b) Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2, 326 IAC 2-3, or 326 IAC 2-7, and there is no applicable New Source Performance Standard that was in effect on August 7, 1980, fugitive emissions are not counted toward the determination of PSD, Emission Offset, and Part 70 Permit applicability.

Background and Description of New Source Construction

The Office of Air Quality (OAQ) has reviewed an application, submitted by Am Stabilizers on July 12, 2013, relating to the construction of a new stationary polymer stabilizers production operation.

No reactive chemical processes are operated at the source. Only mixing of dry ingredients and packaging are performed.

The following is a list of the new emission units and pollution control devices:

- (a) Mill Line #1, approved for construction in 2013, with a process capacity of 670 pounds per hour, exhausting to Stack #1. The line is comprised of the following:
 - (1) One (1) bulk/bag unloading station, identified as Raw Material Bulk/Bag Station #1;
 - (2) One (1) mixer, identified as Mixer #1, with a volume of 100 cubic feet, and a capacity of 670 pounds per hour, with emissions exhausting into Surge Bin #1.
 - (3) One (1) surge bin, identified as Surge Bin #1, with a volume of 460 cubic feet, exhausting through Bin Vent #1;
 - (4) One (1) bulk loading station, identified as Bulk Pack # 1;

- (5) One (1) bag loading station, identified as Bag Pack # 1.
- (b) Mill Line #2, approved for construction in 2013, with a process capacity of 1,005 pounds per hour, exhausting to Stack #1. The line is comprised of the following:
 - (1) One (1) bulk/bag unloading station, identified as Raw Material Bulk/Bag Station #2;
 - (2) One (1) mixer, identified as Mixer #2, with a volume of 150 cubic feet, and a capacity of 1005 pounds per hour, with emissions exhausting into Surge Bin #2;
 - (3) One (1) surge bin, identified as Surge Bin #2, with a volume of 460 cubic feet, exhausting through Bin Vent #2;
 - (4) One (1) bulk loading station, identified as Bulk Pack # 2;
 - (5) One (1) bag loading station, identified as Bag Pack # 2.

The source also consists of the following specifically regulated insignificant activities:

- (c) Ten (10) natural gas space heaters, each with a maximum heat input capacity of 175,000 Btu per hour, approved for construction in 2013, exhausting to the atmosphere.

| |
|---------------------------|
| Enforcement Issues |
|---------------------------|

There are no pending enforcement actions related to this source.

| |
|------------------------------|
| Emission Calculations |
|------------------------------|

See Appendix A of this TSD for detailed emission calculations.

Permit Level Determination – MSOP

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

| Pollutant | Potential To Emit (tons/year) |
|---------------------------|-------------------------------|
| PM | 92.2 |
| PM10 ⁽¹⁾ | 72.8 |
| PM2.5 ⁽¹⁾ | 72.5 |
| SO ₂ | 0.005 |
| NO _x | 0.8 |
| VOC | 0.04 |
| CO | 0.6 |
| GHGs as CO ₂ e | 5.5 |

Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10) and particulate matter with an aerodynamic diameter less than or equal to a nominal 2.5 micrometers (PM2.5), not particulate matter (PM), are each considered as a "regulated air pollutant".

| | |
|---------------------|---------------|
| Greatest single HAP | 0.01 (hexane) |
| TOTAL HAPs | 0.01 |

- (a) The potential to emit (PTE) (as defined in 326 IAC 2-1.1-1) of PM10 and PM_{2.5} are each less than one hundred (100) tons per year, but greater than or equal to twenty-five (25) tons per year. The PTE of all other regulated criteria pollutants are less than twenty-five (25) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-6.1. A Minor Source Operating Permit (MSOP) will be issued.
- (b) The potential to emit (PTE) (as defined in 326 IAC 2-1.1-1) of any single HAP is less than ten (10) tons per year and the PTE of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA) and not subject to the provisions of 326 IAC 2-7.
- (c) The potential to emit (PTE) (as defined in 326 IAC 2-1.1-1) greenhouse gases (GHGs) is less than the Title V subject to regulation threshold of one hundred thousand (100,000) tons of CO₂ equivalent emissions (CO₂e) per year. Therefore, the source is not subject to the provisions of 326 IAC 2-7.

Federal Rule Applicability Determination

New Source Performance Standards (NSPS)

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

National Emission Standards for Hazardous Air Pollutants (NESHAP)

There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) included in the permit.

Compliance Assurance Monitoring (CAM)

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

| |
|---|
| State Rule Applicability Determination |
|---|

The following state rules are applicable to the source:

- (a) 326 IAC 2-6.1 (Minor Source Operating Permits (MSOP))
MSOP applicability is discussed under the Permit Level Determination – MSOP section above.
- (b) 326 IAC 2-2 (Prevention of Significant Deterioration(PSD))

This source is not a major stationary source, under PSD (326 IAC 2-2), because the potential to emit of all PSD regulated pollutants are less than 250 tons per year and this source is not one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(ff)(1). The potential to emit greenhouse gases (GHGs) is less than the PSD subject to regulation threshold of one hundred thousand (100,000) tons of CO₂ equivalent emissions (CO₂e) per year. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.
- (c) 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))
The potential to emit of any single HAP is less than ten (10) tons per year and the potential to emit of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA) and not subject to the provisions of 326 IAC 2-4.1.
- (d) 326 IAC 2-6 (Emission Reporting)
Pursuant to 326 IAC 2-6-1, this source is not subject to this rule, because it is not required to have an operating permit under 326 IAC 2-7 (Part 70), it is located in Porter County, it has actual emissions of NO_x and VOC of less than twenty-five (25) tons per year, and it does not emit lead into the ambient air at levels equal to or greater than 5 tons per year. Therefore, 326 IAC 2-6 does not apply.
- (e) 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.

- (f) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the unload stations, mixers, surge bins and packout stations shall not exceed the indicated emission rates, in pounds per hour, when operating at the specified process weight rates given below:

| Facility | Process Weight Rate (tons per hour) | 326 IAC 6-3-2 Allowable PM Emission Rate (pounds per hour) |
|----------------------------------|--|--|
| LINE 1 | | |
| Raw Material Bulk/Bag Station #1 | 0.335 | 1.97 |
| Mixer #1 | 0.335 | 1.97 |
| Surge Bin #1 | 0.335 | 1.97 |
| Bulk Pack #1 | 0.167 | 1.23 |
| Bag Pack #1 | 0.167 | 1.23 |
| LINE 2 | | |
| Raw Material Bulk/Bag Station #2 | 0.502 | 2.58 |
| Mixer #2 | 0.502 | 2.58 |
| Surge Bin #2 | 0.502 | 2.58 |
| Bulk Pack #2 | 0.251 | 1.62 |
| Bag Pack #2 | 0.251 | 1.62 |

Interpolation for the 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

The baghouse shall be in operation at all times that Mixer #1 or Mixer #2 are in operation, in order to comply with the limit.

Based on calculations, the baghouse is not needed for the unload operations, surge bins or packout operations in order to comply with these limits.

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

| |
|--|
| Compliance Determination, Monitoring and Testing Requirements |
|--|

The compliance determination and monitoring requirements applicable to this source are as follows:

| Emission Unit/Control | Operating Parameters | Frequency |
|-----------------------|----------------------|--------------|
| Baghouse | Visible Emissions | Once per day |

This condition is necessary to ensure that the baghouse is operating correctly and controlling the emissions from the mixing operations in order to meet the 326 IAC 6-3-2 limitations.

| |
|--------------------------------------|
| Conclusion and Recommendation |
|--------------------------------------|

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant. An application for the purposes of this review was received on July 12, 2013.

The construction and operation of this source shall be subject to the conditions of the attached proposed New Source Construction and MSOP No. 127-33427-00127. The staff recommends to the Commissioner that this New Source Construction MSOP be approved.

| |
|---------------------|
| IDEM Contact |
|---------------------|

- (a) Questions regarding this proposed permit can be directed to James Mackenzie at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 233-2641 or toll free at 1-800-451-6027 extension 3-2641.
- (b) A copy of the findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: www.in.gov/idem

Appendix A: Emission Calculations

Company: AM Stabilizers Corporation
Address City IN Zip: 705 Silhavy Rd, Valparaiso
Part 70 Permit: 127-33427-00127
Reviewer: James Mackenzie
Date: 8/6/2013

SUMMARY**POTENTIAL EMISSIONS**

| Emission Unit | POLLUTANTS (ton/yr) | | | | | | | (ton/yr) | | |
|------------------------|---------------------|------------------|-------------------|-----------------|-----------------|-------------|------------|---------------------------|-------------|------------------|
| | PM | PM ₁₀ | PM _{2.5} | SO ₂ | NO _x | VOC | CO | GHG's (CO ₂ e) | Total HAPs | Worst Single HAP |
| Line #1 | 37.4 | 29.4 | 29.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Line #2 | 52.7 | 42.9 | 42.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Combustion, Nat. Gas | 0.01 | 0.06 | 0.06 | 0.005 | 0.8 | 0.04 | 0.6 | 5 | 0.01 | 0.01 |
| Paved Roads | 2.1 | 0.4 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Emissions | 92.2 | 72.8 | 72.5 | 0.005 | 0.8 | 0.04 | 0.6 | 5.5 | 0.01 | 0.01 |

CONTROLLED EMISSIONS

| Emission Unit | POLLUTANTS (ton/yr) | | | | | | | (ton/yr) | | |
|------------------------|---------------------|------------------|-------------------|-----------------|-----------------|-------------|------------|---------------------------|-------------|------------------|
| | PM | PM ₁₀ | PM _{2.5} | SO ₂ | NO _x | VOC | CO | GHG's (CO ₂ e) | Total HAPs | Worst Single HAP |
| Line #1 | 0.4 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Line #2 | 0.5 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Combustion, Nat. Gas | 0.01 | 0.1 | 0.1 | 0.005 | 0.8 | 0.04 | 0.6 | 5.5 | 0.01 | 0.01 |
| Paved Roads | 2.1 | 0.4 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Emissions | 3.0 | 1.2 | 0.9 | 0.005 | 0.8 | 0.04 | 0.6 | 5.5 | 0.01 | 0.01 |

LIMITED EMISSIONS

| Emission Unit | POLLUTANTS (ton/yr) | | | | | | | (ton/yr) | | |
|------------------------|---------------------|------------------|-------------------|-----------------|-----------------|-------------|------------|---------------------------|-------------|------------------|
| | PM | PM ₁₀ | PM _{2.5} | SO ₂ | NO _x | VOC | CO | GHG's (CO ₂ e) | Total HAPs | Worst Single HAP |
| Line #1 | 16.7 | 13.1 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Line #2 | 20.0 | 16.8 | 16.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Combustion, Nat. Gas | 0.01 | 0.1 | 0.1 | 0.005 | 0.8 | 0.0 | 0.6 | 5.5 | 0.01 | 0.01 |
| Paved Roads | 2.1 | 0.4 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Emissions | 38.8 | 30.4 | 30.1 | 0.005 | 0.8 | 0.04 | 0.6 | 5.5 | 0.01 | 0.01 |

PARTICULATE EMISSIONS: LOAD, MIX & PACK-OUT

POTENTIAL TO EMIT

| EMISSION UNIT / PROCESS | PROCESS RATE | | | EMISSION FACTORS | | 326 IAC 6-3-2 Lmitation | PARTICULATE EMISSIONS | | |
|-----------------------------------|--------------|----------|----------|------------------|--------------------------------------|-------------------------------|-----------------------|--------------------------------------|------|
| | | | | PM | PM ₁₀ / PM _{2.5} | PM | PM | PM ₁₀ / PM _{2.5} | |
| | (lb/yr) | (ton/yr) | (ton/hr) | (lb/ton) | | (lb/hr) | (lb/hr) | (ton/yr) | |
| Line 1 | 5,868,345 | 2,934 | | | | | | | |
| Bulk/Bag; Unload to Mixer | | 2,934 | 0.335 | 0.572 | 0.156 | 1.97 | 0.19 | 0.8 | 0.2 |
| Mixer #1, 100 ft ³ | | 2,934 | 0.335 | 20 | 17 | 1.97 | 6.70 | 29.3 | 24.9 |
| Surge Bin #1, 460 ft ³ | | 2,934 | 0.335 | 3.14 | 1.1 | 1.97 | 1.05 | 4.6 | 1.6 |
| Bulk Pack Out #1 | | 1,467 | 0.167 | 1.8 | 1.8 | 1.23 | 0.30 | 1.3 | 1.3 |
| Bag Pack Out #1 | | 1,467 | 0.167 | 1.8 | 1.8 | 1.23 | 0.30 | 1.3 | 1.3 |
| Subtotals | | | | | | | 37.4 | 29.4 | |
| Line 2 | 8,802,517 | 4,401 | | | | | | | |
| Bulk/Bag; Unload to Mixer | | 4,401 | 0.502 | 0.572 | 0.156 | 2.58 | 0.29 | 1.3 | 0.3 |
| Mixer #2, 150 ft ³ | | 4,401 | 0.502 | 20 | 17 | 2.58 | 10.05 | 44.0 | 37.4 |
| Surge Bin #2, 460 ft ³ | | 2,201 | 0.251 | 3.14 | 1.1 | 1.62 | 0.79 | 3.5 | 1.2 |
| Bulk Pack Out #2 | | 2,201 | 0.251 | 1.8 | 1.8 | 1.62 | 0.45 | 2.0 | 2.0 |
| Bag Pack Out #2 | | 2,201 | 0.251 | 1.8 | 1.8 | 1.62 | 0.45 | 2.0 | 2.0 |
| Subtotals | | | | | | | 52.7 | 42.9 | |
| Combined Totals | 14,670,862 | | | | | | 90.1 | 72.3 | |

| CONTROLLED EMISSIONS | | Particulate Emissions (ton/yr) | |
|--|--|-----------------------------------|--------------------------------------|
| Baghouse - Polyester Fabric Filter. Control Efficiency = 99% | | PM | PM ₁₀ / PM _{2.5} |
| Line 1 | | 0.4 | 0.3 |
| Line 2 | | 0.5 | 0.4 |
| | | 0.9 | 0.7 |

LIMITED EMISSIONS

| EMISSION UNIT / PROCESS | PROCESS RATE | | | EMISSION FACTORS | | 326 IAC 6-3-2 Lmitation | PARTICULATE EMISSIONS | | |
|-----------------------------------|--------------|----------|----------|------------------|--------------------------------------|-------------------------------|-----------------------|--------------------------------------|------|
| | | | | PM | PM ₁₀ / PM _{2.5} | PM | PM | PM ₁₀ / PM _{2.5} | |
| | (lb/yr) | (ton/yr) | (ton/hr) | (lb/ton) | | (lb/hr) | (lb/hr) | (ton/yr) | |
| Line 1 | 5,868,345 | 2,934 | | | | | | | |
| Bulk/Bag; Unload to Mixer | | 2,934 | 0.335 | - | - | 1.97 | 0.19 | 0.8 | 0.2 |
| Mixer #1, 100 ft ³ | | 2,934 | 0.335 | - | - | 1.97 | 1.97 | 8.6 | 8.6 |
| Surge Bin #1, 460 ft ³ | | 2,934 | 0.335 | - | - | 1.97 | 1.05 | 4.6 | 1.6 |
| Bulk Pack Out #1 | | 1,467 | 0.167 | - | - | 1.23 | 0.30 | 1.3 | 1.3 |
| Bag Pack Out #1 | | 1,467 | 0.167 | - | - | 1.23 | 0.30 | 1.3 | 1.3 |
| Subtotals | | | | | | | 16.7 | 13.1 | |
| Line 2 | 8,802,517 | 4,401 | | | | | | | |
| Bulk/Bag; Unload to Mixer | | 4,401 | 0.502 | - | - | 2.58 | 0.29 | 1.3 | 0.3 |
| Mixer #2, 150 ft ³ | | 4,401 | 0.502 | - | - | 2.58 | 2.58 | 11.3 | 11.3 |
| Surge Bin #2, 460 ft ³ | | 2,201 | 0.251 | - | - | 1.62 | 0.79 | 3.5 | 1.2 |
| Bulk Pack Out #2 | | 2,201 | 0.251 | - | - | 1.62 | 0.45 | 2.0 | 2.0 |
| Bag Pack Out #2 | | 2,201 | 0.251 | - | - | 1.62 | 0.45 | 2.0 | 2.0 |
| Subtotals | | | | | | | 20.0 | 16.8 | |
| Combined Totals | 14,670,862 | | | | | | 36.7 | 29.9 | |

Note

Potential emissions are estimated, based on historical throughput of Line #1 at prior installation site. See Methodology.

Line #1 historical rate (< yr. 2013) = 3,890,793 lb/yr, when operating 242 day per year.

Line #2 throughput rate (engineering estimate): 150% of Line #1.

Methodology

Production rate estimated (from 242 day/yr operation history):

Line #1 production rate = (3,890,793)(lb/yr) x (365/242)(days/days) =

5,868,345 (lb/yr)

Line #2 production rate = (Line #1 rate) x (150%) =

8,802,517 (lb/yr)

Ton per year emissions = (ton/yr) x (Ef.)(lb/ton) x (1/2,000)(ton/lb)

Emission Factors

Unload to Mixer: AP-42, Table 11.12-2, Concrete Batching - Central Mixer Loading

Mixer (PM): AP-42, Table 6.4-2 Paint Manufacturing. Ranged value (PM): (10-20) lb/ton

Mixer (PM_{10/2.5}): AP-42, Appendix B Table B.2.2 Mechanically Generated, Nonmetallic Mineral. PM₁₀ ≈ 85% PM

Surge Bin: AP-42, Table 11.12-2, Cement Supplement Unloading to Elevated Storage Silo (pneumatic)

Pack-Out: AP-42, Table 11.26-1, Talc Packaging; Derived value, based on 99% filter eff. (AP 42 Appx. B.2 Table B.2-3 [9/90])

= (0.0090/1000)(lb/lb) x (2,000)(lb/ton) x (1/[1-0.99]) = 1.8 (lb/ton)

COMBUSTION, NATURAL GAS: (10) HEATERS @ 175,000 Btu/hr, ea.

| Heat Input Capacity (MMBtu/hr) | HHV (Btu/scf) | Potential Throughput (MMCF/yr) |
|-----------------------------------|------------------|-----------------------------------|
| 1.75 | 1020 | 15.0 |

| POTENTIAL EMISSIONS | Pollutant | | | | | | |
|---------------------------|-----------|------------------|-------------------|-----------------|-----------------|------|-----|
| | PM | PM ₁₀ | PM _{2.5} | SO ₂ | NO _x | VOC | CO |
| Emission Factor (lb/MMcf) | 1.9 | 7.6 | 7.6 | 0.6 | 100 | 5.5 | 84 |
| (ton/yr) | 0.01 | 0.1 | 0.1 | 0.005 | 0.8 | 0.04 | 0.6 |

Note

PM = filterable only. PM₁₀/PM_{2.5} = filterable + condensable.

PM_{2.5} is direct measurement (no precursors).

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

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of G

Emission Factors from AP 42, Chapter 1.4, Tables.

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

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

HAPS Calculations

| | HAPs - Organics | | | | | Total Organics |
|----------------------------|-----------------|------------------|---------------|-----------|-----------|----------------|
| | Benzene | Dichloro-benzene | Form-aldehyde | Hexane | Toluene | |
| Emission Factor in lb/MMcf | 2.1E-03 | 1.2E-03 | 7.5E-02 | 1.8E+00 | 3.4E-03 | |
| in tons/yr | 1.578E-05 | 9.018E-06 | 5.636E-04 | 1.353E-02 | 2.555E-05 | 1.414E-02 |

| | HAPs - Metals | | | | | Total - Metals |
|----------------------------|---------------|-----------|-----------|-----------|-----------|----------------|
| | Lead | Cadmium | Chromium | Manganese | Nickel | |
| Emission Factor in lb/MMcf | 5.0E-04 | 1.1E-03 | 1.4E-03 | 3.8E-04 | 2.1E-03 | |
| in tons/yr | 3.757E-06 | 8.266E-06 | 1.052E-05 | 2.856E-06 | 1.578E-05 | 4.118E-05 |

Note

The five highest organic and metal HAPs emission factors are provided above.

Additional HAPs emission factors are available in AP-42, CI

Methodology as above.

Total HAP's **1.418E-02**

GREENHOUSE GAS POTENTIAL

| | Greenhouse Gas | | |
|---------------------------------------|-----------------|-----------------|------------------|
| | CO ₂ | CH ₄ | N ₂ O |
| Emission Factor (lb/MMcf) | 120,000 | 2.3 | 2.2 |
| (ton/yr) | 902 | 0.02 | 0.02 |
| Summed Potential (ton/yr) | 902 | | |
| CO ₂ e Total (ton/yr) | 907 | | |
| With Biogenic Deferral: | | | |
| CO₂e Total (ton/yr) | 5.5 | | |

Methodology

The N₂O Emission Factor for uncontrolled is 2.2. The N₂O Emission Factor for low Nox burner is 0.64.

Emission Factors are from AP 42, Table 1.4-2

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

Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.

CO₂e (tons/yr) = Σ[(Gas)(ton/yr) x (Global Warming Potential)]

CO₂e (tons/yr) = (CO₂)(ton/yr) + (CH₄)(ton/yr) x (21) + (N₂O ton/yr) x (310).

Three year deferral on biogenic CO₂ emissions; EPA issued July 20, 2011.

Appendix A: Emission Calculations

Company: AM Stabilizers Corporation
 Address City IN Zip: 705 Silhavy Rd, Valparaiso
 Part 70 Permit: 127-33427-00127
 Reviewer: James Mackenzie
 Date: 5/7/2013

Paved Road Emissions

| Trip/yr | Miles (mi/trip) | Emission Factors, E (lb/VMT) | | | Emissions (ton/yr) | | |
|---------|--------------------|------------------------------|------------------|-------------------|--------------------|------------------|-------------------|
| | | PM | PM ₁₀ | PM _{2.5} | PM | PM ₁₀ | PM _{2.5} |
| 17,520 | 0.477 | 0.4917 | 0.0983 | 0.0241 | 2.05 | 0.41 | 0.10 |

Methodology: AP-42 13.2.1 Paved Roads (1/11)

Emissions = (trip/yr) x (mi/trip) x E(lb/VMT) x (1/2,000)(ton/lb)

where:

$$E = k (sL)^{0.91} \times (W)^{1.02}$$

and VMT = Vehicle Miles Travelled

| | |
|-----------------------|--------|
| E(PM) | 0.4917 |
| E(PM ₁₀) | 0.0983 |
| E(PM _{2.5}) | 0.0241 |

E = particulate emission factor (having units matching the units of k),

k = particle size multiplier for particle size range and units of interest (see below),

W = average weight (tons) of the vehicles traveling the road =

19

sL = road surface silt loading (grams per square meter) (lb/mi) =

2.4

(sL; Table 13.2.1-2; with Ave. Daily Traffic < 500: Ubiquitous Silt Loading w/ baseline winter multiplier = 0.6 x 4 = 2.4)

| Table 13.2.1-1 | |
|----------------|-----------------------------|
| Particle Size | Multiplier, k (lb/VMT) |
| PM-30 | 0.011 |
| PM-10 | 0.0022 |
| PM-2.5 | 0.00054 |

Data provided from source:

| Description | Ave. Tare Wt. (tons) | Ave. Loaded Wt. (tons) | Ave. Wt. (tons) | Trip/hr | Distance (mi) | Round Trip (mi) | Trip/year |
|-------------|-------------------------|------------------------------|--------------------|---------|------------------|--------------------|-----------|
| Hvy. Truck | 17.5 | 40 | 28.75 | 1 | 0.477 | 0.954 | 8760 |
| Lt. Truck | 5.5 | 13 | 9.25 | 1 | 0.477 | 0.954 | 8760 |

Average vehicle weight, (tons): 19

Total Trip/yr: 17,520



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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Michael R. Pence
Governor

Thomas W. Easterly
Commissioner

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

TO: Frank Kusbel
AM Stabilizers
3100 Michigan Avenue
Hammond, IN 46323

DATE: November 18, 2013

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

SUBJECT: Final Decision
New Source Construction & Minor Source Operating Permit
127-33427-00127

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

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

A copy of the final decision and supporting materials has also been sent via standard mail to:
Rene O Trevino – Meca Engineering
OAQ Permits Branch Interested Parties List

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

Final Applicant Cover letter.dot 6/13/2013



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

100 N. Senate Avenue • Indianapolis, IN 46204

(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov

Michael R. Pence
Governor

Thomas W. Easterly
Commissioner

November 18, 2013

TO: Valparaiso Public Library

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

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

Applicant Name: AM Stabilizers
Permit Number: 127-33427-00127

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

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

Enclosures
Final Library.dot 6/13/2013

Mail Code 61-53

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|----------------------------|---|---|--|--|
| IDEM Staff | GHOTOPP 11/18/2013 AM Stabilizers 127-33427-00127 Final | | AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING | |
| Name and address of Sender |  | Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204 | | |

| Line | Article Number | Name, Address, Street and Post Office Address | Postage | Handling Charges | Act. Value (If Registered) | Insured Value | Due Send if COD | R.R. Fee | S.D. Fee | S.H. Fee | Rest. Del. Fee | Remarks |
|------|----------------|---|---------|------------------|----------------------------|---------------|-----------------|----------|----------|----------|----------------|---------|
| 1 | | Frank Kusbel AM Stabilizers 3100 Michigan Ave Hammond IN 46323 (Source CAATS) via confirmed delivery | | | | | | | | | | |
| 2 | | Porter County Board of Commissioners 155 Indiana Ave, Ste 205 Valparaiso IN 46383 (Local Official) | | | | | | | | | | |
| 3 | | Valparaiso Public Library 103 Jefferson St Valparaiso IN 46383-4899 (Library) | | | | | | | | | | |
| 4 | | Porter County Health Department 155 Indiana Ave, Suite 104 Valparaiso IN 46383-5502 (Health Department) | | | | | | | | | | |
| 5 | | Shawn Sobocinski 3229 E. Atlanta Court Portage IN 46368 (Affected Party) | | | | | | | | | | |
| 6 | | Mr. Ed Dybel 2440 Schrage Avenue Whiting IN 46394 (Affected Party) | | | | | | | | | | |
| 7 | | Valparaiso City Council and Mayors Office 166 Lincolnway Valparaiso IN 46383-5524 (Local Official) | | | | | | | | | | |
| 8 | | Mr. Joseph Virgil 128 Kinsale Avenue Valparaiso IN 46385 (Affected Party) | | | | | | | | | | |
| 9 | | Mark Coleman 107 Diana Road Portage IN 46368 (Affected Party) | | | | | | | | | | |
| 10 | | Mr. Chris Hernandez Pipefitters Association, Local Union 597 8762 Louisiana St., Suite G Merrillville IN 46410 (Affected Party) | | | | | | | | | | |
| 11 | | Burns Harbor Town Council 1240 N. Boo Rd Burns Harbor IN 46304 (Local Official) | | | | | | | | | | |
| 12 | | Eric & Sharon Haussman 57 Shore Drive Ogden Dunes IN 46368 (Affected Party) | | | | | | | | | | |
| 13 | | Joseph Hero 11723 S Oakridge Drive St. John IN 46373 (Affected Party) | | | | | | | | | | |
| 14 | | Matt Mikus 409 Yellowstone Rd - Apt 1 Valparaiso IN 46385 (Affected Party) | | | | | | | | | | |
| 15 | | Rene O Trevino Meca Engineering 2586 Central Avenue Lake Station IN 46405 (Consultant) | | | | | | | | | | |

| | | | |
|---|--|--|--|
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| 14 | | | |