



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

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(800) 451-6027 • (317) 232-8603 • [www.idem.IN.gov](http://www.idem.IN.gov)

**Eric J. Holcomb**  
Governor

**Brian C. Rockensuess**  
Commissioner

To: Interested Parties

Date: June 27, 2024

From: Jenny Acker, Chief  
Permits Branch  
Office of Air Quality

Source Name: Custom Building Products

Permit Level: FESOP w/New Source Review

Permit Number: 023-47575-00036

Source Location: 3800 W SR 28 Frankfort, IN 46041

Type of Action Taken: Initial Permit

## 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 matter referenced above.

The final decision is available on the IDEM website at: <http://www.in.gov/apps/idem/caats/>  
To view the document, choose Search Option **by Permit Number**, then enter permit 47575. This search will also provide the application received date, **draft permit** public notice start and end date, and **final** permit issuance date.

The final decision is also available via IDEM's Virtual File Cabinet (VFC). Please go to: <https://www.IN.gov/idem> and enter VFC in the search box. You will then have the option to search for permit documents using a variety of criteria.

*(continues on next page)*

If you would like to request a paper copy of the permit document, please contact IDEM's Office of Records Management:

IDEM - Office of Records Management  
Indiana Government Center North, Room 1207  
100 North Senate Avenue  
Indianapolis, IN 46204  
Phone: (317) 232-8667  
Fax: (317) 233-6647  
Email: [IDEMFILEROOM@idem.in.gov](mailto:IDEMFILEROOM@idem.in.gov)

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 Indiana Office of Administrative Law Proceedings, 100 N. Senate Avenue Suite N802, 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 Indiana Office of Administrative Law Proceedings (OALP) or;
- (2) the date of the postmark on the envelope containing the document, if the document is mailed to OALP 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 OALP 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.



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Governor

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Commissioner

## New Source Review and Federally Enforceable State Operating Permit OFFICE OF AIR QUALITY


Custom Building Products  
3800 West State Road 28  
Frankfort, Indiana 46041

(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.

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

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-8 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

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

Operation Permit No.: F023-47575-00036	
Master Agency Interest ID: 15418	
Issued by:  Ghassan Shalabi, Section Chief Permits Branch Office of Air Quality	Issuance Date: June 27, 2024  Expiration Date: June 27, 2029

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## SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

### A.1 General Information [326 IAC 2-8-3(b)]

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The Permittee owns and operates a stationary dry grout and cement mixing operation, and board plant operations.

Source Address:	3800 West State Road 28, Frankfort, Indiana 46041
General Source Phone Number:	765-656-0234
SIC Code:	3272, 2891
County Location:	Clinton
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Federally Enforceable State Operating Permit Program Minor Source, under PSD and Emission Offset Rules Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

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

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

- (a) One (1) dry mix operation, identified as EU1, constructed in 1999, with a maximum capacity of mixing 19.49 tons of material per hour, using ten (10) bin vents and one (1) voluntary dust collector for particulate matter (PM) control, and exhausting to stacks BV-1 through BV-10, and MT-1, respectively.
- (b) One (1) wet mix unit, identified as EU3, constructed in 2018, with a maximum capacity of 3.49 tons per hour, using one (1) dust collector MT-2 for particulate matter (PM) control, and exhausting to stack BV-11.
- (c) One (1) wet mix unit, identified as EU4, constructed in 2023, with a maximum capacity of 3.09 tons per hour, using one (1) dust collector MT-2 for particulate matter (PM) control, and exhausting to stack BV-11.

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

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

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour, including:
  - (1) One (1) natural gas-fired boiler, identified as B-1, constructed in 1999, with a maximum heat input capacity of 0.9 MMBtu per hour, using no control, and exhausting to stack B-1.
  - (2) Three (3) natural gas-fired space heaters, identified as H-1, H-2 and H-3, constructed in 1999, each with a maximum heat input capacity of 1.6 MMBtu per hour, using no controls, and exhausting to stacks H-1, H-2 and H-3.

(b) Paved roads with public parking lots.

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

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

## **SECTION B GENERAL CONDITIONS**

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

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Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2 and 326 IAC 2-7) shall prevail.

### **B.2 Revocation of Permits [326 IAC 2-1.1-9(5)]**

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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][326 IAC 2-8]**

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This document shall also become the approval to operate pursuant to 326 IAC 2-5.1-4 and 326 IAC 2-8 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 2-8-4(2)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]**

- 
- (a) This permit, F023-47575-00036, 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.5 Term of Conditions [326 IAC 2-1.1-9.5]**

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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 [326 IAC 2-8-6] [IC 13-17-12]**

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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 [326 IAC 2-8-4(4)]**

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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 [326 IAC 2-8-4(5)(D)]**

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

**B.9 Duty to Provide Information [326 IAC 2-8-4(5)(E)]**

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

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- (a) A certification required by this permit meets the requirements of 326 IAC 2-8-5(a)(1) if:
  - (1) it contains a certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1), and
  - (2) the certification states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) The Permittee may use the attached Certification Form, or its equivalent with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
- (c) An "authorized individual" is defined at 326 IAC 2-1.1-1(1).

**B.11 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]**

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

- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

- (c) The annual compliance certification report shall include the following:
- (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
  - (2) The compliance status;
  - (3) Whether compliance was continuous or intermittent;
  - (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-8-4(3); and
  - (5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ may require to determine the compliance status of the source.

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

B.12 Compliance Order Issuance [326 IAC 2-8-5(b)]

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

B.13 Preventive Maintenance Plan [326 IAC 1-6-3][326 IAC 2-8-4(9)]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, including the following information on each facility:
- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
  - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
  - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

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

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

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

The Permittee shall implement the PMPs.

- (b) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions. The PMPs and their submittal do not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.14 Emergency Provisions [326 IAC 2-8-12]

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation except as provided in 326 IAC 2-8-12.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:
  - (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
  - (2) The permitted facility was at the time being properly operated;
  - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
  - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

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

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

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

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

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

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

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

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

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

**B.15 Prior Permits Superseded [326 IAC 2-1.1-9.5]**

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- (a) All terms and conditions of permits established prior to F023-47575-00036 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.16 Termination of Right to Operate [326 IAC 2-8-9][326 IAC 2-8-3(h)]**

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The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-8-3(h) and 326 IAC 2-8-9.

**B.17 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-8-4(5)(C)][326 IAC 2-8-7(a)][326 IAC 2-8-8]**

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- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Federally Enforceable State Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-8-4(5)(C)] The notification by the Permittee does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ determines any of the following:
- (1) That this permit contains a material mistake.
  - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
  - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-8-8(a)]
- (c) Proceedings by IDEM, OAQ to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-8-8(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-8-8(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

**B.18 Permit Renewal [326 IAC 2-8-3(h)]**

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- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-8-3. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(42). The renewal application does require a

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

Request for renewal shall be submitted to:

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

- (b) A timely renewal application is one that is:
- (1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
  - (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified, pursuant to 326 IAC 2-8-3(g), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

**B.19 Permit Amendment or Revision [326 IAC 2-8-10][326 IAC 2-8-11.1]**

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- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-8-10 or 326 IAC 2-8-11.1 whenever the Permittee seeks to amend or modify this permit.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:
- Indiana Department of Environmental Management  
Permit Administration and Support Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251
- Any such application does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

**B.20 Operational Flexibility [326 IAC 2-8-15][326 IAC 2-8-11.1]**

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- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-8-15(b) and (c) without a prior permit revision, if each of the following conditions is met:
- (1) The changes are not modifications under any provision of Title I of the Clean Air Act;

- (2) Any approval required by 326 IAC 2-8-11.1 has been obtained;
- (3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);

- (4) The Permittee notifies the:

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

and

United States Environmental Protection Agency, Region 5  
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)  
77 West Jackson Boulevard  
Chicago, Illinois 60604-3590

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

- (5) The Permittee maintains records on-site, on a rolling five (5) year basis, which document all such changes and emission trades that are subject to 326 IAC 2-8-15(b)(1) and (c). The Permittee shall make such records available, upon reasonable request, for public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ in the notices specified in 326 IAC 2-8-15(b)(1) and (c).

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

B.21 Source Modification Requirement [326 IAC 2-8-11.1]

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

B.22 Inspection and Entry [326 IAC 2-8-5(a)(2)][IC 13-14-2-2][IC 13-17-3-2][IC 13-30-3-1]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as

such, the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a FESOP source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.23 Transfer of Ownership or Operational Control [326 IAC 2-8-10]

- (a) The Permittee must comply with the requirements of 326 IAC 2-8-10 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:  
  
Indiana Department of Environmental Management  
Permit Administration and Support Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251  
  
Any such application does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.24 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-8-4(6)] [326 IAC 2-8-16][326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees to IDEM, OAQ no later than thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.
- (b) Failure to pay may result in administrative enforcement action or revocation of this permit.



- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-8590 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

**B.25 Credible Evidence [326 IAC 2-8-4(3)][326 IAC 2-8-5][62 FR 8314] [326 IAC 1-1-6]**

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

## SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

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

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

(a) Pursuant to 326 IAC 2-8:

- (1) The potential to emit any regulated pollutant, except particulate matter (PM), from the entire source shall be limited to less than one hundred (100) tons per twelve (12) consecutive month period.
- (2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and
- (3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.

(b) Pursuant to 326 IAC 2-2 (PSD), potential to emit particulate matter (PM) from the entire source shall be limited to less than two hundred fifty (250) tons per twelve (12) consecutive month period.

(c) This condition shall include all emission points at this source including those that are insignificant as defined in 326 IAC 2-7-1(21). The source shall be allowed to add insignificant activities not already listed in this permit, provided that the source's potential to emit does not exceed the above specified limits.

(d) Section D of this permit contains independently enforceable provisions to satisfy this requirement.

C.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]**

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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]**

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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]**

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

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

All required notifications shall be submitted to:

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

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

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

#### **C.8 Performance Testing [326 IAC 3-6]**

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- (a) For performance testing required by this permit, a test protocol, except as provided elsewhere in this permit, shall be submitted to:  
  
Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251  
  
no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

### **Compliance Requirements [326 IAC 2-1.1-11]**

#### **C.9 Compliance Requirements [326 IAC 2-1.1-11]**

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

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

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

#### **C.10 Compliance Monitoring [326 IAC 2-8-4(3)][326 IAC 2-8-5(a)(1)]**

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

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

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

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

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

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

#### **C.12 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]**

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

- (a) The Permittee shall prepare written emergency reduction plans (ERPs) consistent with safe operating procedures.

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

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

no later than 180 days from the date on which this source commences operation.

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

- (c) If the ERP is disapproved by IDEM, OAQ, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP.
- (d) These ERPs shall state those actions that will be taken, when each episode level is declared, to reduce or eliminate emissions of the appropriate air pollutants.
- (e) Said ERPs shall also identify the sources of air pollutants, the approximate amount of reduction of the pollutants, and a brief description of the manner in which the reduction will be achieved.
- (f) Upon direct notification by IDEM, OAQ that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.13 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68]

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

C.14 Response to Excursions or Exceedances [326 IAC 2-8-4] [326 IAC 2-8-5]

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

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

- (1) monitoring results;
- (2) review of operation and maintenance procedures and records; and/or
- (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall record the reasonable response steps taken.

**C.15 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4][326 IAC 2-8-5]**

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

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

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

**C.16 General Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-5]**

- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. Support information includes the following, where applicable:
  - (AA) All calibration and maintenance records.
  - (BB) All original strip chart recordings for continuous monitoring instrumentation.
  - (CC) Copies of all reports required by the FESOP.Records of required monitoring information include the following, where applicable:
  - (AA) The date, place, as defined in this permit, and time of sampling or measurements.
  - (BB) The dates analyses were performed.
  - (CC) The company or entity that performed the analyses.
  - (DD) The analytical techniques or methods used.
  - (EE) The results of such analyses.
  - (FF) The operating conditions as existing at the time of sampling or measurement.

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 2-8-4(3)(C)] [326 IAC 2-1.1-11]**

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- (a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Proper notice submittal under Section B - Emergency Provisions satisfies the reporting requirements of this paragraph. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported except that a deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. This report shall be submitted not later than thirty (30) days after the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1). A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.
- (b) The address for report submittal is:  
  
Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251
- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (d) The first report shall cover the period commencing on the date of issuance of this permit or the date of initial start-up, whichever is later, and ending on the last day of the reporting period. Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit, "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

**Stratospheric Ozone Protection**

**C.18 Compliance with 40 CFR 82 and 326 IAC 22-1**

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



**SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS**

**Emissions Unit Description:**

- (a) One (1) dry mix operation, identified as EU1, constructed in 1999, with a maximum capacity of mixing 19.49 tons of material per hour, using ten (10) bin vents and one (1) voluntary dust collector for particulate matter (PM) control, and exhausting to stacks BV-1 through BV-10, and MT-1, respectively.
- (b) One (1) wet mix unit, identified as EU3, constructed in 2018, with a maximum capacity of 3.49 tons per hour, using one (1) dust collector MT-2 for particulate matter (PM) control, and exhausting to stack BV-11.
- (c) One (1) wet mix unit, identified as EU4, constructed in 2023, with a maximum capacity of 3.09 tons per hour, using one (1) dust collector MT-2 for particulate matter (PM) control, and exhausting to stack BV-11.

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

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

**D.1.1 FESOP Limit for Single HAP [326 IAC 8-2-4][326 IAC 2-4.1]**

Pursuant to 326 IAC 2-8-4 (FESOP), and in order to render the requirements of 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAPs)) and 326 IAC 2-7 (Part 70 Permits) not applicable, the Permittee shall comply with the following:

- (a) The emissions of each single HAP from the wet mix units EU3 and EU4 shall not exceed 9.00 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.
- (b) The total emissions of any combination of HAPs from the wet mix units EU3 and EU4 shall not exceed 24.00 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with these limits, combined with the potential to emit HAP from all other emission units at the source, shall limit the source-wide potential to emit single HAP to less than 10 tons per twelve (12) consecutive month period and the source-wide potential to emit total HAPs to less than 25 tons per twelve (12) consecutive month period, and shall render the source an area source of HAP emissions under Section 112 of the Clean Air Act (CAA) and shall render the requirements of 326 IAC 2-7 (Part 70 Permits) not applicable.

**D.1.2 Particulate Emission Limitation [326 IAC 6-3-2]**

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate matter (PM) from the dry mix operation EU1, wet mix unit EU3, and wet mix unit EU4 shall not exceed the pounds per hour limits listed in the table below:

Process / Emission Unit	Process Weight Rate (P) (tons/hour)	Allowable PM Emissions (E) (lbs/hour)
<i>Dry Mix Operation EU1</i>		
Unloading Cement/Fly Ash	8.01	16.53
Unloading Aggregate	11.47	21.03
Weigh Hopper Loading	19.48	29.98
Mixer Loading	19.48	29.98

Final Product Filling	19.48	29.98
<i>Wet Mix Unit EU3</i>		
Unloading Limestone	3.45	9.40
Unloading Power	0.04	0.45
Weigh Hopper Loading	3.49	9.47
Mixer Loading	3.49	9.47
<i>Wet Mix Unit EU4</i>		
Unloading Limestone	3.04	8.63
Unloading Power	0.05	0.57
Weigh Hopper Loading	3.09	8.73
Mixer Loading	3.09	8.73

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

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

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

#### D.1.3 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan is required for these facilities and their control devices. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

### Compliance Determination Requirements [326 IAC 2-8-4(1)]

#### D.1.4 HAP Compliance Determination

In order to comply with Condition D.1.1, the single HAP and total HAPs emissions shall be determined using the following equations:

*Single HAP*

$$\text{Single HAP} = \sum_{\text{solvent}=i}^n [((T_B * T_{WS} * D_{WS} * HAP_W (\text{wt}\%)) * EF)] / 2000$$

*Total HAPs*

$$\text{Total HAP} = \sum_{\text{solvent}=i}^n [((T_B * T_{Si} * D_{Si} * HAP_i (\text{wt}\%)) * EF)] / 2000$$

Where:

- Single HAP = Single HAPs emissions from Wet Mix Units EU3 and EU4 (tons per month)
- Total HAP = Total HAPs emissions from Wet Mix Units EU3 and EU4 (tons per month)
- T<sub>B</sub> = Total number of batches processed in Wet Mix Units EU3 and EU4 (batch per month)
- T<sub>WS</sub> = Total amount of all solvents used in Wet Mix Unit EU3 or EU4 that contain the highest single HAP (gallons per batch)
- D<sub>WS</sub> = Density of each solvent used in Wet Mix Units EU3 and EU4 that contain the highest single HAP (pound per gallon)
- HAP<sub>W</sub> (wt%) = The weight percent of the highest single HAP in each solvent used in Wet Mix Unit EU3 or EU4

$T_{Si}$ =	Total amount of each solvent used in Wet Mix Units EU3 and EU4 (gallons per batch)
$D_{Sj}$ =	Density of each solvent used in Wet Mix Units EU3 and EU4 (pound per gallon)
$HAP_i$ (wt%) =	The weight percent of each HAP in each solvent used in Wet Mix Units EU3 and EU4
EF =	Emission factor (0.034 lb VOC/HAP emitted/lb solvent used) from Methods for Estimating Air Emissions from Paint, Ink, and Other Coating Manufacturing Facilities, February 2005, Emission Inventory Improvement Program (EIIP) Document, Volume II: Chapter 8, Environmental Protection Agency.

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

#### **D.1.5 Record Keeping Requirement**

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- (a) To document the compliance status with Conditions D.1.1, the Permittee shall maintain records in accordance with (1) through (5) below. Records maintained for (1) through (5) shall be taken monthly and shall be complete and sufficient to establish compliance with the HAP limitations established in Conditions D.1.1.
- (1) Number of batches processed at the wet mix unit EU3 and the wet mix unit EU4 (batches per month)
  - (2) The amount of each solvent used per batch at the wet mix unit EU3 and the wet mix unit EU4 (gallons per month)
  - (3) Safety data sheets (SDS) necessary to verify the density and HAP % content of all solvent used at the wet mix unit EU3 and the wet mix unit EU4.
  - (4) The total HAPs and single HAP emissions calculated using the equations in Condition D.1.4 for each month and each compliance period.
  - (5) The dates of the compliance period.
- (b) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

#### **D.1.6 Reporting Requirement**

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A quarterly summary of the information to document compliance status with Condition D.1.1 shall be submitted using the reporting forms located at the end of this permit, or their equivalent, no later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The reports submitted by the Permittee do require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

## SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

### Emissions Unit Description:

#### Insignificant Activities:

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour, including:
  - (1) One (1) natural gas-fired boiler, identified as B-1, constructed in 1999, with a maximum heat input capacity of 0.9 MMBtu per hour, using no control, and exhausting to stack B-1.

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

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

#### D.2.1 Particulate Emission Limitations for Sources of Indirect Heating [326 IAC 6-2-4]

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Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating), PM emissions from the natural gas-fired boiler B-1 shall be limited to 0.6 pounds per MMBtu heat input.

#### D.2.2 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

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A Preventive Maintenance Plan is required for this facility. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

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

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

Source Name: Custom Building Products  
Source Address: 3800 West State Road 28, Frankfort, Indiana 46041  
FESOP Permit No.: F023-47575-00036

**This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this permit.**

Please check what document is being certified:

- Annual Compliance Certification Letter
- Test Result (specify) \_\_\_\_\_
- Report (specify) \_\_\_\_\_
- Notification (specify) \_\_\_\_\_
- Affidavit (specify) \_\_\_\_\_
- Other (specify) \_\_\_\_\_

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE AND ENFORCEMENT BRANCH  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251  
Phone: (317) 233-0178  
Fax: (317) 233-6865**

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

Source Name: Custom Building Products  
Source Address: 3800 West State Road 28, Frankfort, Indiana 46041  
FESOP Permit No.: F023-47575-00036

**This form consists of 2 pages**

**Page 1 of 2**

- This is an emergency as defined in 326 IAC 2-7-1(12)
- The Permittee must notify the Office of Air Quality (OAQ), within four (4) daytime business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and
  - The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-8-12

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

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

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

**Page 2 of 2**

Date/Time Emergency started:		
Date/Time Emergency was corrected:		
Was the facility being properly operated at the time of the emergency?	Y	N
Type of Pollutants Emitted: TSP, PM-10, SO <sub>2</sub> , VOC, NO <sub>x</sub> , CO, Pb, other:		
Estimated amount of pollutant(s) emitted during emergency:		
Describe the steps taken to mitigate the problem:		
Describe the corrective actions/response steps taken:		
Describe the measures taken to minimize emissions:		
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:		

Form Completed by: \_\_\_\_\_

Title / Position: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

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

**FESOP Quarterly Report**

Source Name: Custom Building Products  
 Source Address: 3800 West State Road 28, Frankfort, Indiana 46041  
 FESOP Permit No.: F023-47575-00036  
 Facility: Wet Mix Unit EU3 and Wet Mix Unit EU4  
 Parameter: Single HAP Emissions  
 Limit: Shall not exceed 9.00 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

QUARTER: \_\_\_\_\_ YEAR: \_\_\_\_\_

Month	Column 1	Column 2	Column 1 + Column 2
	<i>(Single HAP Emissions) (tons)</i>	<i>(Single HAP Emissions) (tons)</i>	<i>(Single HAP Emissions) (tons)</i>
	This Month	Previous 11 Months	12 Month Total

- No deviation occurred in this quarter.
- Deviation/s occurred in this quarter.  
 Deviation has been reported on: \_\_\_\_\_

Submitted by: \_\_\_\_\_

Title / Position: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_



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

**FESOP Quarterly Report**

Source Name: Custom Building Products  
Source Address: 3800 West State Road 28, Frankfort, Indiana 46041  
FESOP Permit No.: F023-47575-00036  
Facility: Wet Mix Unit EU3 and Wet Mix Unit EU4  
Parameter: Total HAPs Emissions  
Limit: Shall not exceed 24.00 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

QUARTER: \_\_\_\_\_ YEAR: \_\_\_\_\_

Month	Column 1	Column 2	Column 1 + Column 2
	<i>(Total HAP Emissions) (tons)</i>	<i>(Total HAP Emissions) (tons)</i>	<i>(Total HAP Emissions) (tons)</i>
	This Month	Previous 11 Months	12 Month Total

- No deviation occurred in this quarter.
- Deviation/s occurred in this quarter.  
Deviation has been reported on: \_\_\_\_\_

Submitted by: \_\_\_\_\_

Title / Position: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

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

Source Name: Custom Building Products  
 Source Address: 3800 West State Road 28, Frankfort, Indiana 46041  
 FESOP Permit No.: F023-47575-00036

**Months:** \_\_\_\_\_ **to** \_\_\_\_\_ **Year:** \_\_\_\_\_

This report shall be submitted quarterly based on a calendar year. Proper notice submittal under Section B - Emergency Provisions satisfies the reporting requirements of paragraph (a) of Section C- General Reporting. Any deviation from the requirements of this permit, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".	
<input type="checkbox"/> NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.	
<input type="checkbox"/> THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD	
<b>Permit Requirement</b> (specify permit condition #)	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	
<b>Permit Requirement</b> (specify permit condition #)	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	

<b>Permit Requirement (specify permit condition #)</b>	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	
<b>Permit Requirement (specify permit condition #)</b>	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	
<b>Permit Requirement (specify permit condition #)</b>	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	

Form Completed by: \_\_\_\_\_

Title / Position: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

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

**Technical Support Document (TSD) for a Minor Source Operating Permit  
(MSOP) Transitioning to a New Source Review and Federally Enforceable  
State Operating Permit (FESOP)**

**Source Description and Location**

**Source Name:** Custom Building Products  
**Source Location:** 3800 West State Road 28, Frankfort, Indiana 46041  
**County:** Clinton  
**SIC Code:** 3272 (Concrete Products, Except Block and Brick)  
2891 (Adhesives and Sealants)  
**Operation Permit No.:** F 023-47575-00036  
**Permit Reviewer:** Hachem Ismaili Alaoui

On February 26, 2024, the Office of Air Quality (OAQ) received an application from Custom Building Products related to the construction and operation of new emission units at an existing stationary dry grout and cement mixing operation, and board plant operations and transition from a MSOP to a FESOP.

**Existing Approvals**

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

- (a) MSOP Renewal No. 023-37830-00036, issued on March 15, 2017; and
- (b) MSOP Minor Permit Revision No. 023-41073-00036, issued on July 30, 2019.

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

**County Attainment Status**

The source is located in Clinton County.

Pursuant to amendments to Indiana Code IC 13-17-3-14, effective July 1, 2023, a federal regulation that classifies or amends a designation of attainment, nonattainment, or unclassifiable for any area in Indiana under the federal Clean Air Act is effective and enforceable in Indiana on the effective date of the federal regulation.

<b>Pollutant</b>	<b>Designation</b>
SO <sub>2</sub>	Unclassifiable or attainment effective April 9, 2018, for the 2010 primary 1-hour SO <sub>2</sub> standard. Better than national secondary standards effective March 3, 1978.
CO	Unclassifiable or attainment effective November 15, 1990.
O <sub>3</sub>	Unclassifiable or attainment effective January 16, 2018, for the 2015 8-hour ozone standard.
PM <sub>2.5</sub>	Unclassifiable or attainment effective April 15, 2015, for the 2012 annual PM <sub>2.5</sub> standard.
PM <sub>2.5</sub>	Unclassifiable or attainment effective December 13, 2009, for the 2006 24-hour PM <sub>2.5</sub> standard.
PM <sub>10</sub>	Unclassifiable effective November 15, 1990.
NO <sub>2</sub>	Unclassifiable or attainment effective January 29, 2012, for the 2010 NO <sub>2</sub> standard.
Pb	Unclassifiable or attainment effective December 31, 2011, for the 2008 lead standard.

- (a) **Ozone Standards**  
Volatile organic compounds (VOC) and Nitrogen Oxides (NO<sub>x</sub>) 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<sub>x</sub> emissions are considered when evaluating the rule applicability relating to ozone. Clinton County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO<sub>x</sub> emissions were reviewed pursuant to the requirements of Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (b) **PM<sub>2.5</sub>**  
Clinton County has been classified as attainment for PM<sub>2.5</sub>. Therefore, direct PM<sub>2.5</sub>, SO<sub>2</sub>, and NO<sub>x</sub> emissions were reviewed pursuant to the requirements of Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (c) **Other Criteria Pollutants**  
Clinton County has been classified as attainment or unclassifiable in Indiana for all the other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

### **Fugitive Emissions**

Since this type of operation is not one (1) of the twenty-eight (28) listed source categories under 326 IAC 2-2-1(ff)(1), 326 IAC 2-3-2(g), or 326 IAC 2-7-1(22)(B), and there is no applicable New Source Performance Standard or National Emission Standard for Hazardous Air Pollutants 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.

The fugitive emissions of hazardous air pollutants (HAP) are counted toward the determination of Part 70 Permit applicability and source status under Section 112 of the Clean Air Act (CAA).

### **Greenhouse Gas (GHG) Emissions**

On June 23, 2014, in the case of *Utility Air Regulatory Group v. EPA*, cause no. 12-1146, (available at [http://www.supremecourt.gov/opinions/13pdf/12-1146\\_4g18.pdf](http://www.supremecourt.gov/opinions/13pdf/12-1146_4g18.pdf)) the United States Supreme Court ruled that the U.S. EPA does not have the authority to treat greenhouse gases (GHGs) as an air pollutant for the purpose of determining operating permit applicability or PSD Major source status. On July 24, 2014, the U.S. EPA issued a memorandum to the Regional Administrators outlining next steps in permitting decisions in light of the Supreme Court's decision. U.S. EPA's guidance states that U.S. EPA will no longer require PSD or Title V permits for sources "previously classified as 'Major' based solely on greenhouse gas emissions."

The Indiana Environmental Rules Board adopted the GHG regulations required by U.S. EPA at 326 IAC 2-2-1(zz), pursuant to Ind. Code § 13-14-9-8(h) (Section 8 rulemaking). A rule, or part of a rule, adopted under Section 8 is automatically invalidated when the corresponding federal rule, or part of the rule, is invalidated. Due to the United States Supreme Court Ruling, IDEM, OAQ cannot consider GHG emissions to determine operating permit applicability or PSD applicability to a source or modification.

### **Background and Description of Emission Units and Pollution Control Equipment**

The Office of Air Quality (OAQ) has reviewed an application, submitted by Custom Building Products on February 26, 2024, relating to the transition from a Minor Source Operating Permit (MSOP) to a Federally Enforceable State Operating Permit (FESOP) due to the addition of a new wet mixing unit that has increased the total Potential to Emit (PTE) of the entire source to greater than the MSOP thresholds.

The following is a list of the existing emission units and pollution control device(s):

- (a) One (1) dry mix operation, identified as EU1, constructed in 1999, with a maximum capacity of mixing 19.49 tons of material per hour, using ten (10) bin vents and one (1) voluntary dust

collector for particulate matter (PM) control, and exhausting to stacks BV-1 through BV-10, and MT-1, respectively.

- (b) One (1) wet mix unit, identified as EU3, constructed in 2018, with a maximum capacity of 3.49 tons per hour, using one (1) dust collector MT-2 for particulate matter (PM) control, and exhausting to stack BV-11.
- (c) Three (3) natural gas-fired space heaters, identified as H-1, H-2 and H-3, constructed in 1999, each with a maximum heat input capacity of 1.6 MMBtu per hour, using no controls, and exhausting to stacks H-1, H-2 and H-3.
- (d) One (1) natural gas-fired boiler, identified as B-1, constructed in 1999, with a maximum heat input capacity of 0.9 MMBtu per hour, using no control, and exhausting to stack B-1.
- (e) Paved roads with public parking lots.

The following emission units that were constructed and/or operated without a permit:

- (f) One (1) wet mix unit, identified as EU4, constructed in 2023, with a maximum capacity of 3.09 tons per hour, using one (1) dust collector MT-2 for particulate matter (PM) control, and exhausting to stack BV-11.

As part of this permitting action, the following emission units are being removed from the source:

- (a) One (1) board plant operation, identified as EU2, with a maximum capacity of processing 11.55 tons of material per hour, using two (2) voluntary baghouses for particulate matter (PM) control, and exhausting to stacks BP-1 and BP-2.
- (b) Three (3) natural gas-fired curing rack furnaces, identified as F-1, F-2, and F-3, with a combined heat input capacity of 0.30 MMBtu per hour.
- (c) Two (2) natural gas-fired curing rack furnaces, identified as F-4 and F-5, each with a heat input of 0.12 MMBtu per hour.
- (d) One (1) REA Elektronik Ink labeling process model NO. SG-LK-2K, identified as F- 01, constructed in 2012, and used to print TOC 130 ink on backer board with a maximum line speed on 85 feet per minute with a maximum print width of 12 inches.

<b>Enforcement Issues</b>
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IDEM is aware that equipment has been constructed and/or operated prior to receipt of the proper permit. IDEM is reviewing this matter and will take the appropriate action. This proposed approval is intended to satisfy the requirements of the construction permit and/or operating rules.

<b>Emission Calculations</b>
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See Appendix A of this Technical Support Document for detailed emission calculations.

<b>Permit Level Determination – FESOP</b>
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This table reflects the unrestricted potential emissions of the source. If the control equipment has been determined to be integral, the table reflects the potential to emit (PTE) after consideration of the integral control device.

<b>Unrestricted Source-Wide Emissions (ton/year)</b>									
	<b>PM<sup>1</sup></b>	<b>PM<sub>10</sub><sup>1</sup></b>	<b>PM<sub>2.5</sub><sup>1, 2</sup></b>	<b>SO<sub>2</sub></b>	<b>NO<sub>x</sub></b>	<b>VOC</b>	<b>CO</b>	<b>Single HAP<sup>3</sup></b>	<b>Total HAPs</b>
<b>Total PTE of Entire Source Excluding Fugitives*</b>	161.37	61.62	61.62	0.01	2.40	35.24	2.01	25.35	25.39
Title V Major Source Thresholds	NA	100	100	100	100	100	100	10	25
PSD Major Source Thresholds	250	250	250	250	250	250	250	--	--
<sup>1</sup> Under the Part 70 Permit program (40 CFR 70), PM <sub>10</sub> and PM <sub>2.5</sub> , not particulate matter (PM), are each considered as a "regulated air pollutant." <sup>2</sup> PM <sub>2.5</sub> listed is direct PM <sub>2.5</sub> . <sup>3</sup> Single highest source-wide HAP (Ethylene Glycol) *Fugitive HAP emissions are always included in the source-wide emissions.									

Appendix A of this TSD reflects the detailed unrestricted potential emissions of the source.

- (a) The potential to emit (as defined in 326 IAC 2-7-1(30)) of each regulated air pollutant is less than one hundred (100) tons per year.
- (b) The potential to emit (as defined in 326 IAC 2-7-1(30)) of any single HAP is equal to or greater than ten (10) tons per year and/or the potential to emit (as defined in 326 IAC 2-7-1(30)) of a combination of HAPs is equal to or greater than twenty-five (25) tons per year. Therefore, the source would have been subject to the provisions of 326 IAC 2-7. However, the source will be issued a Federally Enforceable State Operating Permit (FESOP) (326 IAC 2-8), because the source will limit HAP emissions to less than the Title V major source threshold levels. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA).

**PTE of the Entire Source After Issuance of the FESOP**

The table below summarizes the after issuance source-wide potential to emit, reflecting all limits, of the emission units. Any control equipment is considered federally enforceable only after issuance of this FESOP, and only to the extent that the effect of the control equipment is made practically enforceable in the permit. If the control equipment has been determined to be integral, the table reflects the potential to emit (PTE) after consideration of the integral control device.

<b>Source-Wide Emissions After Issuance (ton/year)</b>									
	<b>PM<sup>1</sup></b>	<b>PM<sub>10</sub><sup>1</sup></b>	<b>PM<sub>2.5</sub><sup>1, 2</sup></b>	<b>SO<sub>2</sub></b>	<b>NO<sub>x</sub></b>	<b>VOC</b>	<b>CO</b>	<b>Single HAP<sup>3</sup></b>	<b>Total HAPs</b>
<b>Total PTE of Entire Source Excluding Fugitives*</b>	164.37	61.62	61.62	0.01	2.40	35.24	2.01	9.00	24.00
Title V Major Source Thresholds	NA	100	100	100	100	100	100	10	25
PSD Major Source Thresholds	250	250	250	250	250	250	250	--	--
<sup>1</sup> Under the Part 70 Permit program (40 CFR 70), PM <sub>10</sub> and PM <sub>2.5</sub> , not particulate matter (PM), are each considered as a "regulated air pollutant." <sup>2</sup> PM <sub>2.5</sub> listed is direct PM <sub>2.5</sub> . <sup>3</sup> Single highest source-wide HAP (Ethylene Glycol) *Fugitive HAP emissions are always included in the source-wide emissions.									

Appendix A of this TSD reflects the detailed potential to emit of the entire source after issuance.

The source opted to take Total and Single HAP limit(s) in order to render the requirements of 326 IAC 2-7 (Part 70 Permits) not applicable to this source and to render the source an area source of HAP emissions under Section 112 of the Clean Air Act (CAA). See Technical Support Document (TSD) State Rule Applicability - Entire Source section, 326 IAC 2-2 (PSD) and 326 IAC 2-3 (Emission Offset), 326 IAC 2-8 (FESOP), and 326 IAC 20 (Hazardous Air Pollutants) for more information regarding the limit(s).

- (a) This existing stationary source is minor under Title V (326 IAC 2-7) because the potential to emit regulated air pollutants and HAPs from the entire source is less than or limited to less than the Title V major source threshold levels. Therefore, the source is subject to the provisions of 326 IAC 2-8 (FESOP) and is an area source under Section 112 of the Clean Air Act (CAA).
- (b) This existing stationary source is minor under PSD (326 IAC 2-2) because the potential to emit of all PSD regulated pollutants from the entire source is less than the PSD major source thresholds. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

<b>Federal Rule Applicability Determination</b>
---

Federal rule applicability for this source has been reviewed as follows:

**New Source Performance Standards (NSPS):**

- (a) The requirements of the New Source Performance Standard for Small Industrial-Commercial-Institutional Steam Generating Units, 40 CFR 60, Subpart Dc and 326 IAC 12, are not included in the permit for the natural gas-fired boiler B-1, because it has a maximum design heat input capacity less than 10 MMBtu per hour.
- (b) The requirements of the New Source Performance Standard for Portland Cement Plants, 40 CFR 60, Subpart F and 326 IAC 12, are not included in the permit for the source, because this source does not manufacture Portland cement.
- (c) There are no other New Source Performance Standards (40 CFR Part 60) and 326 IAC 12 included in the permit.

**National Emission Standards for Hazardous Air Pollutants (NESHAP):**

- (a) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR 63, Subpart DDDDD and 326 IAC 20-95 are not included in the permit for the natural gas-fired boiler B-1, since this source is not a major source of HAPs.
- (b) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Industrial, Commercial, and Institutional Boilers Area Sources, 40 CFR 63, Subpart JJJJJJ are not included in the permit for the natural gas-fired boiler B-1, since, pursuant to 40 CFR 63.11195(e), this boiler is exempt from the requirement of this subpart because it is a natural gas-fired boiler.
- (c) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Portland Cement Manufacturing, 40 CFR 63, Subpart LLL and 326 IAC 20-27 are not included in the permit for this source, since this source is not a Portland cement plant.
- (d) There are no other National Emission Standards for Hazardous Air Pollutants under 40 CFR 63, 326 IAC 14 and 326 IAC 20 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 unlimited 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.

<b>State Rule Applicability - Entire Source</b>
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State rule applicability for this source has been reviewed as follows:

#### **326 IAC 2-2 (PSD) and 326 IAC 2-3 (Emission Offset)**

PSD, and Emission Offset applicability is discussed under the PTE of the Entire Source After Issuance of the FESOP section of this document.

#### **326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))**

The operation of this source will emit less than ten (10) tons per year for a single HAP and less than twenty-five (25) tons per year for a combination of HAPs. Therefore, 326 IAC 2-4.1 does not apply.

#### **326 IAC 2-6 (Emission Reporting)**

This source is not subject to 326 IAC 2-6 (Emission Reporting), because it is not required to have an operating permit pursuant to 326 IAC 2-7 (Part 70), it is not located in Lake or Porter County, and its potential to emit lead is less than 5 tons per year. Therefore, this rule does not apply.

#### **326 IAC 2-8-4 (FESOP) and 326 IAC 20 (Hazardous Air Pollutants)**

FESOP applicability is discussed under the PTE of the Entire Source After Issuance of the FESOP section of this document.

#### **FESOP HAP Limit(s)**

Pursuant to 326 IAC 2-8-4 (FESOP), and in order to render the source an area source of HAP emissions under Section 112 of the Clean Air Act (CAA), and render the requirements of 326 IAC 2-7 (Part 70 Permits) not applicable, the Permittee shall comply with the following:

- (a) The emissions of each single HAP from the wet mix units EU3 and EU4 shall not exceed 9.00 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.
- (b) The total emissions of any combination of HAPs from the wet mix units EU3 and EU4 shall not exceed 24.00 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with these limits, combined with the potential to emit HAP from all other emission units at the source, shall limit the source-wide potential to emit single HAP to less than 10 tons per twelve (12) consecutive month period and the source-wide potential to emit total HAPs to less than 25 tons per twelve (12) consecutive month period, and shall render the source an area source of HAP emissions under Section 112 of the Clean Air Act (CAA) and shall render the requirements of 326 IAC 2-7 (Part 70 Permits) not applicable.

#### **326 IAC 5-1 (Opacity Limitations)**

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

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

This source is not subject to the requirements of 326 IAC 6-5, because the source has potential fugitive particulate emissions of less than twenty-five (25) tons per year.

**326 IAC 6.5 (Particulate Matter Limitations Except Lake County)**

Pursuant to 326 IAC 6.5-1-1(a), this source (located in Clinton County) is not subject to the requirements of 326 IAC 6.5 because it is not located in one of the following counties: Clark, Dearborn, Dubois, Howard, Marion, St. Joseph, Vanderburgh, Vigo or Wayne.

**326 IAC 6.8 (Particulate Matter Limitations for Lake County)**

Pursuant to 326 IAC 6.8-1-1(a), this source (located in Clinton County) is not subject to the requirements of 326 IAC 6.8 because it is not located in Lake County.

**326 IAC 6.8 (Lake County: Fugitive Particulate Matter)**

Pursuant to 326 IAC 6.8-10-1, this source (located in Clinton County) is not subject to the requirements of 326 IAC 6.8-10 because it is not located in Lake County.

<b>State Rule Applicability – Individual Facilities</b>
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State rule applicability for this source has been reviewed as follows:

Natural Gas-fired Boiler B-1

**326 IAC 6-2-1 (Particulate Emission Limitations for Sources of Indirect Heating)**

Pursuant to 326 IAC 6-2-1(d), indirect heating facilities which received permit to construct after September 21, 1983 are subject to the requirements of 326 IAC 6-2-4.

The particulate matter emissions (Pt) shall be limited by the following equation:

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

Where:

Pt = Pounds of particulate matter emitted per million British thermal units (lb/MMBtu).

Q = Total source maximum operating capacity rating in MMBtu/hr heat input. The maximum operating capacity rating is defined as the maximum capacity at which the facility is operated or the nameplate capacity, whichever is specified in the facility's permit application, except when some lower capacity is contained in the facility's operation permit; in which case, the capacity specified in the operation permit shall be used.

Pursuant to 326 IAC 6-2-4(a), for Q less than 10 MMBtu/hr, Pt shall not exceed 0.6 lb/MMBtu. Therefore, PM emissions from the natural gas fired boiler B-1 shall not exceed 0.6 lb/MMBtu.

Based upon the emission factors in AP-42, the potential PM emissions when operating on natural gas are 0.002 lb/MMBtu (1.90 lb/MMCF x 1MMcf/1,000 MMBtu = 0.0019 lb/MMBtu). Therefore, the natural gas-fired boilers B-1 can comply with this rule.

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

Pursuant to 326 IAC 6-3-1(b)(1), the natural gas-fired boiler B-1 is not subject to the requirements of 326 IAC 6-3, since it is a combustion of indirect heat unit.

**326 IAC 7-1.1 Sulfur Dioxide Emission Limitations**

This natural gas-fired boiler B-1 is not subject to 326 IAC 326 IAC 7-1.1 because it has a potential to emit (or limited potential to emit) sulfur dioxide (SO<sub>2</sub>) of less than 25 tons per year or 10 pounds per hour

**326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)**

Even though, this natural gas-fired boiler B-1, was constructed after January 1, 1980, it is not subject to the requirements of 326 IAC 8-1-6 because its unlimited VOC potential emissions are less than twenty-five (25) tons per year.

**326 IAC 9-1 (Carbon Monoxide Emission Limits)**

The requirements of 326 IAC 9-1 do not apply to the natural gas-fired boiler B-1, because this source does not operate a catalyst regeneration petroleum cracking system or a petroleum fluid coker, grey iron cupola, blast furnace, basic oxygen steel furnace, or other ferrous metal smelting equipment.

**326 IAC 10-3 (Nitrogen Oxide Reduction Program for Specific Source Categories)**

The requirements of 326 IAC 10-3 do not apply to the natural gas-fired boiler B-1, since this unit is not a blast furnace gas-fired boiler, a Portland cement kiln, or a facility specifically listed under 326 IAC 10-3-1(a)(2).

Three (3) Natural Gas-fired Space Heaters H-1, H-2, and H-3

**326 IAC 6-2-1 (Particulate Emission Limitations for Sources of Indirect Heating)**

Pursuant to 326 IAC 6-2-1(a), the three (3) natural gas-fired space heaters H-1, H-2, and H-3 are not subject to the requirements of 326 IAC 6-2, since they do not meet the definition of indirect heating.

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

Pursuant to 326 IAC 1-2-59, the three (3) natural gas-fired space heaters H-1, H-2, and H-3 exempt from the requirements of 326 IAC 6-3, since burning gaseous fuels is not considered as part of the process weight rate.

**326 IAC 7-1.1 Sulfur Dioxide Emission Limitations**

The three (3) natural gas-fired space heaters H-1, H-2, and H-3 not subject to 326 IAC 326 IAC 7-1.1 because each has a potential to emit (or limited potential to emit) sulfur dioxide (SO<sub>2</sub>) less than 25 tons per year or 10 pounds per hour

**326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)**

Even though, the three (3) natural gas-fired space heaters H-1, H-2, and H-3, were constructed after January 1, 1980, they are not subject to the requirements of 326 IAC 8-1-6 because each has unlimited VOC potential emissions less than twenty-five (25) tons per year.

**326 IAC 9-1 (Carbon Monoxide Emission Limits)**

The requirements of 326 IAC 9-1 do not apply to the three (3) natural gas-fired space heaters H-1, H-2, and H-3, because this source does not operate a catalyst regeneration petroleum cracking system or a petroleum fluid coker, grey iron cupola, blast furnace, basic oxygen steel furnace, or other ferrous metal smelting equipment.

**326 IAC 10-3 (Nitrogen Oxide Reduction Program for Specific Source Categories)**

The requirements of 326 IAC 10-3 do not apply to the three (3) natural gas-fired space heaters H-1, H-2, and H-3, since these units are not blast furnace gas-fired boilers, Portland cement kilns, or facilities specifically listed under 326 IAC 10-3-1(a)(2).

Dry Mix Operation EU1, Wet Mix Unit EU3, and Wet Mix Unit EU4

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

Pursuant to 326 IAC 6-3-1(a), the requirements of 326 IAC 6-3-2 are applicable to the dry mix operation EU1, wet mix unit EU3, and wet mix unit EU4, since they are manufacturing process not exempted from this rule under 326 IAC 6-3-1(b) and are not subject to a particulate matter limitation that is as stringent as or more stringent than the particulate limitation established in this rule as specified in 326 IAC 6-3-1(c).

Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the dry mix operation EU1, wet mix unit EU3, and wet mix unit EU4 shall not exceed pounds per hour limits listed in the table below. The pound per hour limitation was calculated with the following equation:

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

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

Summary of Process Weight Rate Limits		
Process / Emission Unit	P (ton/hr)	E (lb/hr)
<i>Dry Mix Operation EU1</i>		
Unloading Cement/Fly Ash	8.01	16.53
Unloading Aggregate	11.47	21.03
Weigh Hopper Loading	19.48	29.98
Mixer Loading	19.48	29.98
Final Product Filling	19.48	29.98
<i>Wet Mix Unit EU3</i>		
Unloading Limestone	3.45	9.40
Unloading Power	0.04	0.45
Weigh Hopper Loading	3.49	9.47
Mixer Loading	3.49	9.47
<i>Wet Mix Unit EU4</i>		
Unloading Limestone	3.04	8.63
Unloading Power	0.05	0.57
Weigh Hopper Loading	3.09	8.73
Mixer Loading	3.09	8.73

Based on calculations, the duct collectors are not needed to comply with these limits.

**326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)**

Even though, the dry mix operation EU1, wet mix unit EU3, and wet mix unit EU4, were constructed after January 1, 1980, they are not subject to the requirements of 326 IAC 8-1-6 because each has unlimited VOC potential emissions less than twenty-five (25) tons per year.

<b>Compliance Determination and Monitoring Requirements</b>
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- (a) The Compliance Determination Requirements applicable to this source are as follows:

*Single HAP*

$$\text{Single HAP} = \sum_{\text{solvent}=i}^n [(T_B * T_{WS} * D_{WS} * HAP_W (\text{wt}\%) * EF)]/2000$$

*Total HAPs*

$$\text{Total HAP} = \sum_{\text{solvent}=i}^n [(T_B * T_{Si} * D_{Si} * HAP_i (\text{wt}\%) * EF)]/2000$$

Where:

- Single HAP = Single HAPs emissions from Wet Mix Units EU3 and EU4 (tons per month)  
Total HAP = Total HAPs emissions from Wet Mix Units EU3 and EU4 (tons per month)  
 $T_B$  = Total number of batches processed in Wet Mix Units EU3 and EU4 (batch per month)  
 $T_{WS}$  = Total amount of all solvents used in Wet Mix Unit EU3 or EU4 that contain the highest single HAP (gallons per batch)  
 $D_{WS}$  = Density of each solvent used in Wet Mix Units EU3 and EU4 that contain the highest single HAP (pound per gallon)  
 $HAP_W (\text{wt}\%)$  = The weight percent of the highest single HAP in each solvent used in Wet Mix Unit EU3 or EU4  
 $T_{Si}$  = Total amount of each solvent used in Wet Mix Units EU3 and EU4 (gallons per batch)  
 $D_{Si}$  = Density of each solvent used in Wet Mix Units EU3 and EU4 (pound per gallon)  
 $HAP_i (\text{wt}\%)$  = The weight percent of each HAP in each solvent used in Wet Mix Units EU3 and EU4  
 $EF$  = Emission factor (0.034 lb VOC/HAP emitted/lb solvent used) from Methods for Estimating Air Emissions from Paint, Ink, and Other Coating Manufacturing Facilities, February 2005, Emission Inventory Improvement Program (EIIP) Document, Volume II: Chapter 8, Environmental Protection Agency

Testing Requirements:

Testing of the dry mix operation EU1, wet mix unit EU3, and wet mix unit EU4 for particulate emissions is not required because the dust collectors are not required to comply with any applicable requirements.

<b>Conclusion and Recommendation</b>
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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 February 26, 2024.

The construction of the proposed new and modified emission units and the operation of this source shall be subject to the conditions of the attached proposed New Source Review and FESOP No. 023-47575-00036. The staff recommends to the Commissioner that the New Source Review and FESOP be approved.

<b>IDEM Contact</b>
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- (a) If you have any questions regarding this permit, please contact Hachem Ismaili Alaoui, Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCM 1003, Indianapolis, Indiana 46204-2251, or by telephone at (317) 232-2827 or (800) 451-6027, and ask for Hachem Ismaili Alaoui or (317) 232-2827.
- (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 Air Permits page on the Internet at: <https://www.in.gov/idem/airpermit/public-participation/>; and the Citizens' Guide to IDEM on the Internet at: <https://www.in.gov/idem/resources/citizens-guide-to-idem/>.

**Appendix A: Emission Calculations  
Source-Wide Summary**

Company Name: Custom Building Products  
Source Address: 3800 West SR 28, Frankfort, Indiana 46041  
Permit Number: 023-47575-00036  
Reviewer: Hachem Ismaili Alaoui

Uncontrolled Potential to Emit (tons/yr)										
Emission Units	PM	PM10	PM2.5	SO2	NOx	VOC	CO	Total HAP	Worst Single HAP	
Dry Mixing Operation EU1	123.97	43.51	43.51	--	--	--	--	--	--	--
Wet Mixing Unit EU3	19.84	9.53	9.53	--	--	18.28	--	12.98	12.98	Ethylene Glycol
Wet Mixing Unit EU4	17.51	8.40	8.40	--	--	16.82	--	12.36	12.36	Ethylene Glycol
Natural Gas Combustion	0.05	0.18	0.18	0.01	2.40	0.13	2.01	0.045	0.043	Hexane
<b>Total PTE Excluding Fugitives</b>	<b>161.37</b>	<b>61.62</b>	<b>61.62</b>	<b>0.01</b>	<b>2.40</b>	<b>35.24</b>	<b>2.01</b>	<b>25.39</b>	<b>25.35</b>	<b>Ethylene Glycol</b>
Paved Roads	3.07	0.61	0.15	--	--	--	--	--	--	--
<b>Total PTE Including Fugitives</b>	<b>164.44</b>	<b>62.23</b>	<b>61.77</b>	<b>0.01</b>	<b>2.40</b>	<b>35.24</b>	<b>2.01</b>	<b>25.39</b>	<b>25.35</b>	<b>Ethylene Glycol</b>

Limited Potential to Emit (tons/yr)										
Emission Units	PM	PM10	PM2.5	SO2	NOx	VOC	CO	Total HAP	Worst Single HAP	
Dry Mixing Operation EU1	123.97	43.51	43.51	--	--	--	--	--	--	--
Wet Mixing Unit EU3	19.84	9.53	9.53	--	--	18.28	--	24.00	9.00	Ethylene Glycol
Wet Mixing Unit EU4	17.51	8.40	8.40	--	--	16.82	--			Ethylene Glycol
Natural Gas Combustion	0.05	0.18	0.18	0.01	2.40	0.13	2.01	0.05	0.04	Hexane
<b>Total PTE Excluding Fugitives</b>	<b>161.37</b>	<b>61.62</b>	<b>61.62</b>	<b>0.01</b>	<b>2.40</b>	<b>35.24</b>	<b>2.01</b>	<b>24.05</b>	<b>9.00</b>	<b>Ethylene Glycol</b>
Paved Roads	3.07	0.61	0.15	--	--	--	--	--	--	--
<b>Total PTE Including Fugitives</b>	<b>164.44</b>	<b>62.23</b>	<b>61.77</b>	<b>0.01</b>	<b>2.40</b>	<b>35.24</b>	<b>2.01</b>	<b>24.05</b>	<b>9.00</b>	<b>Ethylene Glycol</b>

Appendix A: Emission Calculations  
Wet Mixing Unit Summary (New Unit)

Company Name: Custom Building Products  
Source Address: 3800 West SR 28, Frankfort, Indiana 46041  
Permit Number: 023-47575-00036  
Reviewer: Hachem Ismaili Alaoui

Uncontrolled Potential to Emit (tons/yr)									
Emission Units	PM	PM10	PM2.5	SO2	NOx	VOC	CO	Total HAP	Worst Single HAP
Wet Mixing (EU4)	17.51	8.40	8.40	--	--	16.82	--	12.36	12.36 Ethylene Glycol



**Appendix A: Emission Calculations  
Dry Grout and Cement Mixing - EU1**

**Company Name:** Custom Building Products  
**Source Address:** 3800 West SR 28, Frankfort, Indiana 46041  
**Permit Number:** 023-47575-00036  
**Reviewer:** Hachem Ismaili Alaoui

**Uncontrolled PM Emissions:**

		PM Emission Factor			PM (tons/year)	PM (lbs/hr)
Unloading Cement/Fly Ash	8.01 ton/hr	0.7300 lb/ton	2000 lb/ton	8760 hr/yr	25.61	5.85
Unloading Aggregate	11.47 ton/hr	0.0069 lb/ton	2000 lb/ton	8760 hr/yr	0.35	0.08
Weigh hopper loading	19.48 ton/hr	0.0048 lb/ton	2000 lb/ton	8760 hr/yr	0.41	0.09
Mixer loading	19.48 ton/hr	0.5720 lb/ton	2000 lb/ton	8760 hr/yr	48.80	11.14
Final product filling	19.48 ton/hr	0.5720 lb/ton	2000 lb/ton	8760 hr/yr	48.80	11.14
Total PM emissions before controls:					<b>123.97</b>	28.30

**Uncontrolled PM10/PM2.5 Emissions:**

		PM Emission Factor			PM10/PM2.5 (tons/year)	PM10/PM2.5 (lbs/hr)
Unloading Cement/Fly Ash	8.01 ton/hr	0.4700 lb/ton	2000 lb/ton	8760 hr/yr	16.49	3.76
Unloading Aggregate	11.47 ton/hr	0.0033 lb/ton	2000 lb/ton	8760 hr/yr	0.17	0.04
Weigh hopper loading	19.48 ton/hr	0.0028 lb/ton	2000 lb/ton	8760 hr/yr	0.24	0.05
Mixer loading	19.48 ton/hr	0.1560 lb/ton	2000 lb/ton	8760 hr/yr	13.31	3.04
Final product filling	19.48 ton/hr	0.1560 lb/ton	2000 lb/ton	8760 hr/yr	13.31	3.04
Total PM10/PM2.5 emissions before controls:					<b>43.51</b>	0.00

**Controlled PM Emissions:**

					PM (tons/year)	
Unloading Cement, Fly Ash	25.61 tons/yr	0% control efficiency			25.61	0.00
Unloading Aggregate	0.35 tons/yr	0% control efficiency			0.35	0.00
Weigh hopper loading	0.41 tons/yr	99% control efficiency			0.00	0.41
Mixer loading	48.80 tons/yr	99% control efficiency			0.49	48.32
Final product filling	48.80 tons/yr	99% control efficiency			0.49	48.32
Total PM emissions after controls:					<b>26.93</b>	97.04

**Controlled PM10/PM2.5 Emissions:**

					PM10/PM2.5 (tons/year)	
Unloading Cement, Fly Ash	16.49 tons/yr	0% control efficiency			16.49	0.00
Unloading Aggregate	0.17 tons/yr	0% control efficiency			0.17	0.00
Weigh hopper loading	0.24 tons/yr	99% control efficiency			0.00	0.24
Mixer loading	13.31 tons/yr	99% control efficiency			0.13	13.18
Final product filling	13.31 tons/yr	99% control efficiency			0.13	13.18
Total PM10/PM2.5 emissions after controls:					<b>16.92</b>	<b>26.59</b>

**Methodology**

PM10=PM2.5

Emission Factors are from AP-42, Chapter 11 (Mineal Products Industry), Section 11.12 (Concrete Batching), Table 11.12-2.

Uncontrolled PTE of PM (tons/yr) = Maximum Throughputs (ton/hr) \* Emission Factor (lbs/ton) \* (1 ton / 2000 lbs) \* (8760 hrs / 1 year)

Controlled PTE of PM = Uncontrolled PTE of PM (ton/yr) \* (1 - control efficiency)

**Appendix A: Emission Calculations  
Emission Calculations (Reliabond)  
Wet Mixing Unit EU3 - PM**

**Company Name:** Custom Building Products  
**Source Address:** 3800 West SR 28, Frankfort, Indiana 46041  
**Permit Number:** 023-47575-00036  
**Reviewer:** Hachem Ismaili Alaoui

**Uncontrolled PM Emissions**

	Maximum Throughputs		PM Emission Factor							
Unloading Limestone	3.45 ton/hr	X	0.7300 lb/ton	/2000	lb/ton	x	8760 hr/yr=	11.03 tons/yr	2.52	lb/hr
Unloading Powder	0.04 ton/hr	X	0.0069 lb/ton	/2000	lb/ton	x	8760 hr/yr=	0.00 tons/yr	0.00	lb/hr
Weigh Hopper Loading	3.49 ton/hr	X	0.0048 lb/ton	/2000	lb/ton	x	8760 hr/yr=	0.07 tons/yr	0.02	lb/hr
Mixer Loading	3.49 ton/hr	X	0.5720 lb/ton	/2000	lb/ton	x	8760 hr/yr=	8.73 tons/yr	1.99	lb/hr
<b>Total PM Emissions before controls:</b>								<b>19.84 tons/yr</b>	<b>4.53</b>	

**Uncontrolled PM10 Emissions:**

Unloading Limestone	3.45 ton/hr	X	0.4700 lb/ton	/2000	lb/ton	x	8760 hr/yr=	7.10 tons/yr	1.62	lb/hr
Unloading Powder	0.04 ton/hr	X	0.0033 lb/ton	/2000	lb/ton	x	8760 hr/yr=	0.00 tons/yr	0.00	lb/hr
Weigh Hopper Loading	3.49 ton/hr	X	0.0028 lb/ton	/2000	lb/ton	x	8760 hr/yr=	0.04 tons/yr	0.01	lb/hr
Mixer Loading	3.49 ton/hr	X	0.1560 lb/ton	/2000	lb/ton	x	8760 hr/yr=	2.38 tons/yr	0.54	lb/hr
<b>Total PM10 Emissions before controls:</b>								<b>9.53 tons/yr</b>	<b>2.17</b>	<b>lb/hr</b>

**Controlled PM Emissions:**

Unloading Limestone	11.03 ton/hr	X	0% control efficiency					11.03 tons/yr	0.00	lb/hr
Unloading Powder	0.00 ton/hr	X	0% control efficiency					0.00 tons/yr	0.00	lb/hr
Weigh Hopper Loading	0.07 ton/hr	X	99% control efficiency					0.00 tons/yr	0.07	lb/hr
Mixer Loading	8.73 ton/hr	X	99% control efficiency					0.09 tons/yr	8.65	lb/hr
<b>Total PM Emissions after controls:</b>								<b>11.12 tons/yr</b>	<b>8.72</b>	<b>lb/hr</b>

**Controlled PM10 Emissions:**

Unloading Limestone	7.10 ton/hr	X	0% control efficiency					7.10 tons/yr	0.00	lb/hr
Unloading Powder	0.00 ton/hr	X	0% control efficiency					0.00 tons/yr	0.00	lb/hr
Weigh Hopper Loading	0.04 ton/hr	X	99% control efficiency					0.00 tons/yr	0.04	lb/hr
Mixer Loading	2.38 ton/hr	X	99% control efficiency					0.02 tons/yr	2.36	lb/hr
								<b>7.13 tons/yr</b>	<b>2.40</b>	<b>lb/hr</b>

**Methodology**

PM10=PM2.5

Emission Factors are from AP-42, Chapter 11 (Mineal Products Industry), Section 11.12 (Concrete Batching), Table 11.12-2.

Uncontrolled PTE of PM (tons/yr) = Maximum Throughputs (ton/hr) \* Emission Factor (lbs/ton) \* (1 ton / 2000 lbs) \* (8760 hrs / 1 year)

Controlled PTE of PM = Uncontrolled PTE of PM (ton/yr) \* (1 - control efficiency)

**Appendix A: Emission Calculations  
PTE VOC Emissions  
Wet Mixing Unit EU3 - VOC/HAPs**

**Company Name: Custom Building Products  
Source Address: 3800 West SR 28, Frankfort, Indiana 46041  
Permit Number: 023-47575-00036  
Reviewer: Hachem Ismaili Alaoui**

RM#	Description	Vendor	Maximum Material Usage (gal/batch)	Density (lb/gal)	Weigh % VOC	Maximum Capacity (batch/day)	Potential VOC Usage (lb/day)	Actual Usage (lb/year)	Potential Usage (lb/year)	Emission Factor (lb VOC/HAP emitted/lb solvent used)	Actual		Potential		
											VOC Emissions (lbs/year)	VOC Emissions (tons/year)	VOC Emissions (lbs/year)	VOC Emissions (tons/year)	
RM9020	Ethylene Glycol	Univar	24.92	9.33	100.00%	9.00	2092.53	264124.09	763774.33	0.034	8980.22	4.49	25968.33	12.98	
RM1001	Water*	N/A	226.66	8.34	0.00%	9.00	0.00	0.00	0.00	--	--	--	--	--	
RM9327	MIT/CMIT Biocide*	Rohm & Haas	1.67	8.40	0.00%	9.00	0.00	0.00	0.00	--	--	--	--	--	
RM1008	Mineral Spirits	Univar	14.83	6.40	100.00%	9.00	854.06	107801.13	311731.26	0.034	3665.24	1.83	10598.86	5.30	
LRM2170	Acronal 4835*	BASF	143.11	8.60	0.00%	9.00	0.00	0.00	0.00	--	--	--	--	--	
RM9200	Sodium Hydroxide*	Univar	4.33	10.62	0.00%	9.00	0.00	0.00	0.00	--	--	--	--	--	
LRM5064	L-S8*	Akzo Nobel	24.41	8.75	0.00%	9.00	0.00	0.00	0.00	--	--	--	--	--	
RM4201	Dualite*	H M Royal	38.82	--	0.00%	9.00	--	--	--	--	--	--	--	--	
RM4026	Limestone*	Pemsey Supply	6899.07	--	0.00%	9.00	--	--	--	--	--	--	--	--	
RM5053	Tylose*	SE Tylose	9.75	--	0.00%	9.00	--	--	--	--	--	--	--	--	
RM4116	Benagua 4000*	Elementis	24.49	--	0.00%	9.00	--	--	--	--	--	--	--	--	
<b>Total</b>												<b>12645.46</b>	<b>6.32</b>	<b>36567.19</b>	<b>18.28</b>

\* These are Non-VOC and Non-HAPs materials.  
Ethylene Glycol is a VOC and HAP

<b>Total HAPs</b>	<b>12.98</b>
<b>Single HAP</b>	<b>12.98</b>

Ethylene Glycol

**Methodology**

VOC emission factor is from Methods for Estimating Air Emissions from Paint, Ink, and Other Coating Manufacturing Facilities, February 2005, Emission Inventory Improvement Program (EIIP) Document, Volume II: Chapter 8, Environmental Protection Agency.

[https://www.epa.gov/sites/default/files/2015-08/documents/i08\\_1602005.pdf](https://www.epa.gov/sites/default/files/2015-08/documents/i08_1602005.pdf)

Potential VOC/HAPs Usage (lbs/day) = Maximum Material Usage (gal/batch) \* Density (lbs/gal) \* Weight % VOC/HAPs \* Maximum capacity (batch/day)

Potential VOC/HAPs Usage (lbs/year) = Potential VOC/HAPs Usage (lbs/day) \* 365 day/year

PTE of VOC/HAPs (lbs/year) = Potential VOC/HAPs Usage (lbs/year) \* EF (lbs of VOC emitted/lb solvent used)

PTE of VOC/HAPs (tons/year) = PTE of VOC/HAPs (lbs/year) \* (1 ton / 2000 lbs)

Actual VOC/HAPs Usage (tons/yr) = Maximum Material Usage (gal/batch) \* Density (lbs/gal) \* 1136 (batch/year)

Actual VOC/HAPs Emissions (lbs/year) = Actual VOC/HAPs Usage (lbs/year) \* EF (lbs of VOC emitted/lb solvent used)

Actual VOC/HAPs Emissions (tons/year) = Actual VOC/HAPs Emissions (lbs/year) \* (1 ton / 2000 lbs)

**Appendix A: Emission Calculations  
Emission Calculations (Reliabond)  
Wet Mixing Unit EU4 - PM**

**Company Name: Custom Building Products  
Source Address: 3800 West SR 28, Frankfort, Indiana 46041  
Permit Number: 023-47575-00036  
Reviewer: Hachem Ismaili Alaoui**

**Uncontrolled PM Emissions**

			PM Emission Factor						
Unloading Limestone	3.04 ton/hr	X	0.7300 lb/ton	/2000	lb/ton	x	8760 hr/yr=	9.71 tons/yr	2.22 lbs/hr
Unloading Powder	0.05 ton/hr	X	0.0069 lb/ton	/2000	lb/ton	x	8760 hr/yr=	0.00 tons/yr	0.00 lbs/hr
Weigh Hopper Loading	3.09 ton/hr	X	0.0048 lb/ton	/2000	lb/ton	x	8760 hr/yr=	0.06 tons/yr	0.01 lbs/hr
Mixer Loading	3.09 ton/hr	X	0.5720 lb/ton	/2000	lb/ton	x	8760 hr/yr=	7.74 tons/yr	1.77 lbs/hr
<b>Total PM Emissions before controls:</b>								<b>17.51 tons/yr</b>	<b>4.00 lbs/hr</b>

**Uncontrolled PM10 Emissions:**

Unloading Limestone	3.04 ton/hr	X	0.4700 lb/ton	/2000	lb/ton	x	8760 hr/yr=	6.25 tons/yr	1.43 lbs/hr
Unloading Powder	0.05 ton/hr	X	0.0033 lb/ton	/2000	lb/ton	x	8760 hr/yr=	0.00 tons/yr	0.00 lbs/hr
Weigh Hopper Loading	3.09 ton/hr	X	0.0028 lb/ton	/2000	lb/ton	x	8760 hr/yr=	0.04 tons/yr	0.01 lbs/hr
Mixer Loading	3.09 ton/hr	X	0.1560 lb/ton	/2000	lb/ton	x	8760 hr/yr=	2.11 tons/yr	0.48 lbs/hr
<b>Total PM10 Emissions before controls:</b>								<b>8.40 tons/yr</b>	<b>1.92 lbs/hr</b>

**Controlled PM Emissions:**

Unloading Limestone	9.71 ton/hr	X	0% control efficiency					9.71 tons/yr	0.00 lbs/hr
Unloading Powder	0.00 ton/hr	X	0% control efficiency					0.00 tons/yr	0.00 lbs/hr
Weigh Hopper Loading	0.06 ton/hr	X	99% control efficiency					0.00 tons/yr	0.06 lbs/hr
Mixer Loading	7.74 ton/hr	X	99% control efficiency					0.08 tons/yr	7.66 lbs/hr
<b>Total PM Emissions after controls:</b>								<b>9.79 tons/yr</b>	<b>7.72 lbs/hr</b>

**Controlled PM10 Emissions:**

Unloading Limestone	6.25 ton/hr	X	0% control efficiency					6.25 tons/yr	0.00 lbs/hr
Unloading Powder	0.00 ton/hr	X	0% control efficiency					0.00 tons/yr	0.00 lbs/hr
Weigh Hopper Loading	0.04 ton/hr	X	99% control efficiency					0.00 tons/yr	0.04 lbs/hr
Mixer Loading	2.11 ton/hr	X	99% control efficiency					0.02 tons/yr	2.09 lbs/hr
								<b>6.27 tons/yr</b>	<b>2.13 lbs/hr</b>

**Methodology**

PM10=PM2.5

Emission Factors are from AP-42, Chapter 11 (Mineral Products Industry), Section 11.12 (Concrete Batching), Table 11.12-2.

Uncontrolled PTE of PM (tons/yr) = Maximum Throughputs (ton/hr) \* Emission Factor (lbs/ton) \* (1 ton / 2000 lbs) \* (8760 hrs / 1 year)

Controlled PTE of PM = Uncontrolled PTE of PM (ton/yr) \* (1 - control efficiency)

**Appendix A: Emission Calculations**  
**PTE VOC Emissions**  
**Wet Mixing Unit EU3 - VOC/HAPs**  
**Company Name: Custom Building Products**  
**Source Address: 3800 West SR 28, Frankfort, Indiana 46041**  
**Permit Number: 023-47575-00036**  
**Reviewer: Hachem Ismaili Alaoui**

RM#	Description	Vendor	Maximum Material Usage (gal/batch)	Density (lb/gal)	Weigh % VOC	Maximum Capacity (batch/day)	Potential VOC Usage (lb/day)	Actual Annual Usage (lb/year)	Potential Annual Usage (lb/year)	Emission Factor (lb VOC emitted/lb solvent used)	Actual		Potential		
											VOC Emissions (lbs/year)	VOC Emissions (tons/year)	VOC Emissions (lbs/year)	VOC Emissions (tons/year)	
RM6926	Ethylene Glycol	Univar	19.81	9.26	100.00%	9.00	1650.84	134268.35	802556.74	0.034	4565.12	2.28	20486.93	10.24	
RM5315	Axiom 2300A*	Temp Chemicals	0.34	--	0.00%	9.00	--	--	--	--	--	--	--	--	
RM9327	Kathon*	Dupont	1.38	8.35	0.00%	9.00	0.00	0.00	0.00	--	--	--	--	--	
RM4201	Dualite ED55*	H M Royal	64.40	--	0.00%	9.00	--	--	--	--	--	--	--	--	
RM4026	Limestone*	Huber	5397.00	--	0.00%	9.00	--	--	--	--	--	--	--	--	
RM5275	Acrysol TT-615*	Dow	7.13	8.35	0.00%	9.00	0.00	0.00	0.00	--	--	--	--	--	
RM5062	Wallcoat*	Dow	45.02	--	0.00%	9.00	--	--	--	--	--	--	--	--	
RM4014	Imvite IGBA*	L-Hoist	46.29	--	0.00%	9.00	--	--	--	--	--	--	--	--	
RM1008	Mineral Spirits	Univar	12.28	6.50	100.00%	9.00	718.56	58442.51	262272.76	0.034	1987.05	0.99	8917.27	4.46	
RM6363	Acronal 4835 X*	BAStF	6363.00	8.60	0.00%	9.00	0.00	0.00	0.00	--	--	--	--	--	
RM5200	Sodium Hydroxide*	Univar	5.89	10.62	0.00%	9.00	0.00	0.00	0.00	--	--	--	--	--	
LRM5027	Acrysol ASE 60*	Dow	27.63	10.00	0.00%	9.00	0.00	0.00	0.00	--	--	--	--	--	
RM4116	Benagua 4000*	Elementis	29.00	--	0.00%	9.00	--	--	--	--	--	--	--	--	
RM9323	Targitol*	Brenntag	1.50	--	0.00%	9.00	--	--	--	--	--	--	--	--	
RM1013	Glycol Ether	Univar	2.56	7.94	100.00%	9.00	182.75	14863.81	66704.41	0.034	505.37	0.25	2267.95	1.13	
RM1029	Dowalol FPH (Glycol Ether)	Dow	2.12	8.35	100.00%	9.00	159.06	12937.05	58057.65	0.034	439.86	0.22	1973.96	0.99	
RM7001	Titanium Dioxide*	Dow	2.12	8.35	0.00%	9.00	0.00	0.00	0.00	--	--	--	--	--	
RM7556	Pigment Blk YIPIN S338*	--	45.02	--	0.00%	9.00	--	--	--	--	--	--	--	--	
RM7150	Yellow Iron Oxide*	--	45.02	--	0.00%	9.00	--	--	--	--	--	--	--	--	
RM7151	Red Iron Oxide*	--	45.02	--	0.00%	9.00	--	--	--	--	--	--	--	--	
RM7152	Black Iron Oxide*	--	45.02	--	0.00%	9.00	--	--	--	--	--	--	--	--	
RM5062	Blue Pigment*	--	45.02	--	0.00%	9.00	--	--	--	--	--	--	--	--	
RM5062	Varnet 98P*	--	45.02	--	0.00%	9.00	--	--	--	--	--	--	--	--	
RM9649	Foamtrol 10L*	--	45.02	--	0.00%	9.00	--	--	--	--	--	--	--	--	
RM9325	Silres B S 4004*	--	45.02	--	0.00%	9.00	--	--	--	--	--	--	--	--	
LRM2169	EPS 2559 Styrene Acrylate Poly*	--	45.02	--	0.00%	9.00	--	--	--	--	--	--	--	--	
LRM5064	L-58 Thickener (Alcozum)*	Dow	27.83	--	0.00%	9.00	--	--	--	--	--	--	--	--	
RM4045	Sand*	Huber	5397.00	--	0.00%	9.00	--	--	--	--	--	--	--	--	
RM4207	White Sand*	Huber	5397.00	--	0.00%	9.00	--	--	--	--	--	--	--	--	
RM1001	Water*	N/A	5397.00	8.34	0.00%	45010.98	0.00	0.00	0.00	--	--	--	--	--	
<b>Total</b>												<b>7497.40</b>	<b>3.75</b>	<b>33646.11</b>	<b>16.82</b>

\* These are Non-VOC and Non-HAPs materials.  
 Ethylene Glycol and Glycol Ether are VOC and HAPs

<b>Total HAPs</b>	<b>12.36</b>
<b>Single HAP</b>	<b>12.36</b>

Ethylene Glycol

**Methodology**

VOC emission factor is from Methods for Estimating Air Emissions from Paint, Ink, and Other Coating Manufacturing Facilities, February 2005, Emission Inventory Improvement Program (EIIP) Document, Volume II: Chapter 8, Environmental Protection Agency.

[https://www.epa.gov/sites/default/files/2015-08/documents/i08\\_feb2005.pdf](https://www.epa.gov/sites/default/files/2015-08/documents/i08_feb2005.pdf)

Potential VOC/HAPs Usage (lbs/day) = Maximum Material Usage (gal/batch) \* Density (lbs/gal) \* Weight % VOC/HAPs \* Maximum capacity (batch/day)

Potential VOC/HAPs Usage (lbs/year) = Potential VOC/HAPs Usage (lbs/day) \* 365 day/year

PTE of VOC/HAPs (lbs/year) = Potential VOC/HAPs Usage (lbs/year) \* EF (lbs of VOC emitted/lb solvent used)

PTE of VOC/HAPs (tons/year) = PTE of VOC/HAPs (lbs/year) \* (1 ton / 2000 lbs)

Actual VOC/HAPs Usage (tons/yr) = Maximum Material Usage (gal/batch) \* Density (lbs/gal) \* 1136 (batch/year)

Actual VOC/HAPs Emissions (lbs/year) = Actual VOC/HAPs Usage (lbs/year) \* EF (lbs of VOC emitted/lb solvent used)

Actual VOC/HAPs Emissions (tons/year) = Actual VOC/HAPs Emissions (lbs/year) \* (1 ton / 2000 lbs)

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

**Company Name:** Custom Building Products  
**Source Address:** 3800 West SR 28, Frankfort, Indiana 46041  
**Permit Number:** 023-47575-00036  
**Reviewer:** Hachem Ismaili Alaoui

Emission Unit	Heat Input Capacity (MMBtu/hr)
H-1	1.57
H-2	1.56
H-3	1.56
B-1	0.90
<b>Total</b>	<b>5.58</b>

Heat Input Capacity  
MMBtu/hr  
5.58

mmBtu  
mmscf  
1020

Potential Throughput  
MMCF/yr  
47.9

Emission Factor in lb/MMCF	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
	1.9	7.6	7.6	0.6	100	5.5	84
Potential Emission in tons/yr	0.05	0.18	0.18	0.01	**see below	0.13	2.01

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

PM2.5 emission factor is filterable and condensable PM2.5 combined.

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

#### Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

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

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

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

#### Hazardous Air Pollutants (HAPs)

	HAPs - Organics					
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene	Total - Organics
Emission Factor in lb/MMcf	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03	
Potential Emission in tons/yr	5.0E-05	2.9E-05	1.8E-03	0.04	8.1E-05	<b>0.05</b>

	HAPs - Metals					
	Lead	Cadmium	Chromium	Manganese	Nickel	Total - Metals
Emission Factor in lb/MMcf	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03	
Potential Emission in tons/yr	1.2E-05	2.6E-05	3.4E-05	9.1E-06	5.0E-05	<b>1.3E-04</b>
					<b>Total HAPs</b>	<b>0.05</b>
					<b>Worst HAP</b>	<b>0.04</b>

Methodology is the same as above.

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

Additional HAPs emission factors are available in AP-42, Chapter 1.4.

**Appendix A: Emission Calculations  
Maximum Potential Raw Material Usage**

**Company Name: Custom Building Products  
Source Address: 3800 West SR 28, Frankfort, Indiana 46041  
Permit Number: 023-47575-00036  
Reviewer: Hachem Ismaili Alaoui**

		<b>Dry Grout and Cement Mixing Cement and Fly Ash</b>
	<b>2017 Annual Usage (lbs)</b>	
RM4055 Gray Cement	43,341,948	
		<b>99,942,802</b> lbs. Potential annual material usage based on 6,240 operational hours
RM4020 Fondu Cement		<b>140,304,318</b> lbs. Potential material usage based on 8,760 operational hours
		<b>70,152</b> Tons/8760 Hours
RM4057 White Cement	34,482,108	<b>8.01</b> Tons Per Hour
RM4069 Fly Ash	22,051,896	
RM4210 Ternal White	66,850	
RM4225 Type H Hydraulic Cement		
	<b>Grand Total</b>	<b>99,942,802</b>
Total hours in the year divided by actual operational hours		
1.403846154		

		<b>Dry Grout and Cement Mixing Sand/Aggregate</b>
	<b>2017 Annual Usage (lbs)</b>	
RM4042 #30 Sand	3,903,252	<b>143,204,676</b> lbs. Potential material usage based on 6,240 operational hours
		<b>201,037,334</b> lbs. Potential material usage based on 8,760 operational hours
RM4045 #60 Sand	138,858,132	<b>100,519</b> Tons/8760 Hours
		<b>11.47</b> Tons Per Hour
RM4082 #16 Sand	443,292	
RM4026 Coarse Ground Dark Limestone		
	<b>GRAND TOTAL</b>	<b>143,204,676</b>
Total hours in the year divided by actual operational hours		
1.403846154		

**Appendix A: Emission Calculations  
 Custom Building Products  
 Maximum Potential Raw Material Usage**

**Company Name: Custom Building Products**  
**Source Address: 3800 West SR 28, Frankfort, Indiana 46041**  
**Permit Number: 023-47575-00036**  
**Reviewer: Hachem Ismaili Alaoui**

		<b>Dry Board Operations Cement and Fly Ash</b>
	<b>2017 Annual Usage (lbs)</b>	
RM4101 Gray Cement	40,777,848	<b>43,224,708</b> lbs. Potential material usage based on 4,160 operational hours
RM4077 Fly Ash	2,446,860	<b>91,021,260</b> lbs. Potential material usage based on 8,760 operational hours
<b>Grand Total</b>	<b>43,224,708</b>	<b>45,511</b> Tons/8760 Hours <b>5.20</b> Tons Per Hour
Total hours in the year divided by actual operational hours 2.10576923		

		<b>Dry Board Operations Aggregate</b>
	<b>2017 Annual Usage (lbs)</b>	
RM4102 Aggregate	52,930,692	<b>52,930,692</b> lbs. Potential material usage based on 4,160 operational hours
<b>Grand Total</b>	<b>52,930,692</b>	<b>111,459,823</b> lbs. Potential material usage based on 8,760 operational hours
<b>55,730</b> Tons/8760 Hours <b>6.36</b> Tons Per Hour		
Total hours in the year divided by actual operational hours 2.10576923		



**Appendix A: Emission Calculations  
Maximum Potential Raw Material Usage - EU3**

**Company Name: Custom Building Products**  
**Source Address: 3800 West SR 28, Frankfort, Indiana 46041**  
**Permit Number: 023-47575-00036**  
**Reviewer: Hachem Ismaili Alaoui**

		<b>Wet Mixing Unit Limestone</b>	
	<b>Annual Usage (lbs)</b>	<b>14,350,071</b>	lbs. Potential annual usage based on 2,080 operational hours
		<b>60,435,876</b>	lbs. Potential material usage based on 8,760 operational hours
			<b>30,218</b> Tons/8760 Hours
RM4026	Limestone	14,350,071	<b>3.45</b> Tons Per Hour
<b>Grand Total</b>		<b>14,350,071</b>	
Total hours in the year divided by actual operational hours 4.21153846			

		<b>Wet Mixing Unit Powder (Reliabond)</b>	
	<b>Annual Usage (lbs)</b>	<b>151,953</b>	lbs. Potential annual material usage based on 2,080 operational hours
		<b>639,954</b>	lbs. Potential material usage based on 8,760 operational hours
			<b>320</b> Tons/8760 Hours
RM4201	Dualite	80,741	
RM5053	Tylose	20,272	
RM4116	Benaqua 4000	50939.616	<b>0.04</b> Tons Per Hour
<b>Grand Total</b>		<b>151,953</b>	
Total hours in the year divided by operational hours 4.21153846			

**Appendix A: Emission Calculations  
Maximum Potential Raw Material Usage - EU4**

**Company Name:** Custom Building Products  
**Source Address:** 3800 West SR 28, Frankfort, Indiana 46041  
**Permit Number:** 023-47575-00036  
**Reviewer:** Hachem Ismaili Alaoui

		<b>Wet Mixing Unit Limestone</b>	
		<b>Annual Usage (lbs)</b>	
			<b>12,628,980</b> lbs. Potential annual usage based on 2,080 operational hours
			<b>53,187,435</b> lbs. Potential material usage based on 8,760 operational hours
			<b>26,594</b> Tons/8760 Hours
RM4026	Limestone	12,628,980	<b>3.04</b> Tons Per Hour
<b>Grand Total</b>		<b>12,628,980</b>	
Total hours in the year divided by actual operational hours 4.21153846			

		<b>Wet Mixing Unit Powder (Reliabond)</b>	
		<b>Annual Usage (lbs)</b>	
			<b>219,258</b> lbs. Potential annual material usage based on 2,080 operational hours
			<b>923,414</b> lbs. Potential material usage based on 8,760 operational hours
			<b>462</b> Tons/8760 Hours
RM4201	Dualite	151,398	
RM5053	Tylose		
RM4116	Benaqua 400	67860	<b>0.05</b> Tons Per Hour
<b>Grand Total</b>		<b>219,258</b>	
Total hours in the year divided by operational hours 4.21153846			

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

**Company Name: Custom Building Products  
Source Address: 3800 West SR 28, Frankfort, Indiana 46041  
Permit Number: 023-47575-00036  
Reviewer: Hachem Ismaili Alaoui**

**Paved Roads at Industrial Site**

The following calculations determine the amount of emissions created by paved roads, based on 8,760 hours of use and AP-42, Ch 13.2.1 (1/2011).

Vehicle Information (provided by source)

Type	Maximum number of vehicles per day	Number of one-way trips per day per vehicle	Maximum trips per day (trip/day)	Maximum Weight of Loaded Vehicle (tons/trip)	Total Weight driven per day (ton/day)	Maximum one-way distance (feet/trip)	Maximum one-way distance (mi/trip)	Maximum one-way miles (miles/day)	Maximum one-way miles (miles/yr)
Vehicle (entering plant) (one-way trip)	32.0	1.0	32.0	80.0	2560.0	200	0.038	1.2	442.4
Vehicle (leaving plant) (one-way trip)	32.0	1.0	32.0	80.0	2560.0	200	0.038	1.2	442.4
<b>Totals</b>			<b>64.0</b>	<b>160.0</b>	<b>5120.0</b>	<b>400.0</b>	<b>0.1</b>	<b>2.4</b>	<b>884.8</b>

Average Vehicle Weight Per Trip = 

80.0
------

 tons/trip  
Average Miles Per Trip = 

0.04
------

 miles/trip

Unmitigated Emission Factor, Ef =  $[k * (sL)^{0.91} * (W)^{1.02}]$  (Equation 1 from AP-42 13.2.1)

PM	PM10	PM2.5
0.011	0.0022	0.00054
80.0	80.0	80.0
9.7	9.7	9.7

where k = lb/VMT = particle size multiplier (AP-42 Table 13.2.1-1)  
W = tons = average vehicle weight  
sL = g/m<sup>2</sup> = silt loading value for paved roads at iron and steel production facilities - Table 13.2.1-3

Taking natural mitigation due to precipitation into consideration, Mitigated Emission Factor, Eext =  $E * [1 - (p/4N)]$  (Equation 2 from AP-42 13.2.1)

Mitigated Emission Factor, Eext =  $Ef * [1 - (p/4N)]$   
where p = 

125
-----

 days of rain greater than or equal to 0.01 inches (see Fig. 13.2.1-2)  
N = 

365
-----

 days per year

PM	PM10	PM2.5
7.595	1.519	0.3728
6.944	1.389	0.3409

Unmitigated Emission Factor, Ef = lb/mile  
Mitigated Emission Factor, Eext = lb/mile

Process	Mitigated PTE of PM (Before Control) (tons/yr)	Mitigated PTE of PM10 (Before Control) (tons/yr)	Mitigated PTE of PM2.5 (Before Control) (tons/yr)
Vehicle (entering plant) (one-way trip)	1.54	0.31	0.08
Vehicle (leaving plant) (one-way trip)	1.54	0.31	0.08
<b>Totals</b>	<b>3.07</b>	<b>0.61</b>	<b>0.15</b>

**Methodology**

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

**Abbreviations**

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



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

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**Eric J. Holcomb**  
Governor

**Brian C. Rockensuess**  
Commissioner

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

TO: Mark Russell  
Custom Building Products  
3800 W SR 28  
Frankfort, IN 46041

DATE: June 27, 2024

FROM: Jenny Acker, Branch Chief  
Permits Branch  
Office of Air Quality

SUBJECT: Final Decision  
FESOP w/New Source Review  
023-47575-00036

This notice is to inform you that a final decision has been issued for the air permit application referenced above.

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. In addition, the Notice of Decision has been sent to the OAQ Permits Branch Interested Parties List and, if applicable, the Consultant/Agent and/or Responsible Official/Authorized Individual.

**The final decision and supporting materials are available electronically;** the original signature page is enclosed for your convenience. The final decision and supporting materials available electronically at:

**IDEM's online searchable database:** <http://www.in.gov/apps/idem/caats/> . Choose Search Option by **Permit Number**, then enter permit 47575

and

**IDEM's Virtual File Cabinet (VFC):** <https://www.in.gov/idem>. Enter VFC in the search box, then search for permit documents using a variety of criteria, such as Program area, date range, permit #, Agency Interest Number, or Source ID.

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, or have difficulty accessing the documents online, 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](mailto:jbrush@idem.IN.gov).

Final Applicant Cover Letter 8/20/20-acces via website



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**Eric J. Holcomb**  
*Governor*

**Brian C. Rockensuess**  
*Commissioner*

June 27, 2024

TO: Frankfort Community Public Library Clinton County Contractual Public Library

From: Jenny Acker, Branch Chief  
Permits Branch  
Office of Air Quality

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

**Applicant Name: Custom Building Products**  
**Permit Number: 023-47575-00036**

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 1/9/2017



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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Eric J. Holcomb  
Governor

Brian C. Rockensuess  
Commissioner

**June 27, 2024**  
**Custom Building Products**  
**023-47575-00036**

To: Interested Parties

This notice is to inform you that a final decision has been issued for the air permit application referenced above. This notice is for informational purposes only. You are not required to take any action.

You are receiving this notice because you asked to be on IDEM's notification list for this company and/or county; or because your property is nearby the company being permitted; or because you represent a local/regional government entity.

The enclosed Notice of Decision Letter provides additional information about the final permit decision.

The final decision and supporting materials are available electronically at:

IDEM's online searchable database: <http://www.in.gov/apps/idem/caats/> . Choose Search Option by Permit Number, then enter permit 47575

and


IDEM's Virtual File Cabinet (VFC): <https://www.in.gov/idem>. Enter VFC in the search box, then search for permit documents using a variety of criteria, such as Program area, date range, permit #, Agency Interest Number, or Source ID.

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.

**Please Note:** *If you would like to be removed from the Air Permits mailing list, please contact Joanne Smiddie-Brush with the Air Permits Administration Section at 1-800-451-6027, ext. 3-0185 or via e-mail at [JBRUSH@IDEM.IN.GOV](mailto:JBRUSH@IDEM.IN.GOV). If you have recently moved and this Notice has been forwarded to you, please notify us of your new address and if you wish to remain on the mailing list. Mail that is returned to IDEM by the Post Office with a forwarding address in a different county will be removed from our list unless otherwise requested.*

Enclosure  
Final Interested Parties Cover Letter 10/13/2023

# Mail Code 61-53

IDEM Staff	CMOSIER 6/27/2024 CUSTOM BLDG PRODUCTS 023-47575-00036 (final)		Type of Mail:  <b>CERTIFICATE OF MAILING ONLY</b>	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		Mark Russell Custom Building Products 3800 W SR 28 Frankfort IN 46041 (Source CAATS) via UPS									
2		Ms. Suzanne Engel Gurr 1127 N CR 300 W Frankfort IN 46041 (Affected Party)									
3		Ms. Faith Hippensteel 1127 N CR 300 W Frankfort IN 46041 (Affected Party)									
4		Mr. Stephen Rothenberger RR 4, Box 228F Frankfort IN 46041 (Affected Party)									
5		Ms. Pauletta J Wood 1853 Goder Ct Frankfort IN 46041 (Affected Party)									
6		Frankfort City Council and Mayors Office 301 E Clinton St Frankfort IN 46041 (Local Official)									
7		Frankfort Community Public Library 208 W Clinton St Frankfort IN 46041-1811 (Library)									
8		Clinton County Health Department 1234 Rossville Ave, Ste B Frankfort IN 46041 (Health Department)									
9		Clinton County Board of Commissioners 125 Courthouse Square Frankfort IN 46041-1942 (Local Official)									
10		Indiana Department of Commerce One N Capitol, Ste 700 Indianapolis IN 46204-2288 (Affected Party)									
11		Mr. Chris Bishop Atlas Technical Consultants 7988 Centerpoint Dr Ste 100 Indianapolis IN 46256 (Consultant)									
12											
13											
14											
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