



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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Eric J. Holcomb
Governor

Brian C. Rockensuess
Commissioner

To: Interested Parties

Date: July 1, 2024

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

Source Name: PPG Brazil Powder

Permit Level: FESOP Renewal with Significant New Source Review

Permit Number: 021-47529-00062

Source Location: 2831 East Industrial Park Drive, Brazil, Indiana 47834

Type of Action Taken: Permit Renewal
Revisions to permit requirements

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 47529. 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

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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Commissioner

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

**PPG Brazil Powder
2831 E Industrial Park Dr.
Brazil, Indiana 47834**

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

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

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-8 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17. This permit also addresses certain new source review requirements for existing equipment and is intended to fulfill the new source review procedures pursuant to 326 IAC 2-2 and 326 IAC 2-8-11.1, applicable to those conditions

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.: F021-47529-00062	
Master Agency Interest ID: 15414	
Issued by:  Ghassan Shalabi, Section Chief Permits Branch Office of Air Quality	Issuance Date: July 1, 2024 Expiration Date: July 1, 2034

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Attachment A: 40 CFR 63, Subpart CCCCCC, National Emission Standards for Hazardous Air
Pollutants for Area Sources: Paints and Allied Products Manufacturing

SECTION A

SOURCE SUMMARY

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

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

The Permittee owns and operates a stationary powder coating manufacturing source.

Source Address:	2831 E Industrial Park Dr., Brazil, Indiana 47834
General Source Phone Number:	(812) 442-5080
SIC Code:	2851 (Paints, Varnishes, Lacquers, Enamels, and Allied Products)
County Location:	Clay
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Federally Enforceable State Operating Permit Program Minor Source, under PSD Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

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

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

- (a) One (1) manual batch mixing operations, identified as MBM, constructed in 2002, with a maximum capacity of 4,100 pounds per hour, with particulate emissions from filling operations controlled by baghouse, BHN, and exhausting inside.

Under 40 CFR 63, Subpart CCCCCC, this unit is considered an affected facility.

- (b) Eight (8) batch process powder coating manufacturing lines, each consisting of:
- (1) One (1) mixer including batch weighing, charging, manual filling, and closed lid mixing, with particulate emissions from filling are controlled by a baghouse;
 - (2) One (1) mixer hopper;
 - (3) One (1) feeder auger, with particulate emissions controlled by a baghouse;
 - (4) One (1) extruder;
 - (5) One (1) chiller conveyor;
 - (6) One (1) chipper;
 - (7) One (1) mill including an internal sifting system and a product control cyclone, with particulate emissions controlled by a baghouse;

ID	Batch Size	Maximum Capacity (lbs of powder coating/hr)	Limiting Process	Mixer and Feeder Auger Baghouse ID	Mixer and Feeder Auger Exhaust	Mill Baghouse ID	Mill Exhaust	Construction Date
SB-1	Small	240	Airflow	BHN	Inside	BH1	Stack 1	2002
SB-2	Small	240	Airflow	BHN	Inside	BH2	Stack 2	2002
SB-3	Small	520	Mill	BHN	Inside	BH3	Stack 3	2011
Line 1	Medium	2,100	Extruder	BHN	Inside	BH4	Stack 4	2002
Line 2	Medium	1,800	Mill	BHN	Inside	BH5	Stack 5	2011
Line 3	Large	4,100	Mill	BHN	Inside	BH6	Stack 6	2011
Line 4	Medium	3,000	Airflow	BHN	Inside	BH7	Stack 7	2002
Line 5	Large	2,100	Extruder	BHN	Inside	BH8	Stack 8	2002

Under 40 CFR 63, Subpart CCCCCC, these units are considered affected facilities.

- (c) One (1) powder coating blender, identified as PCB, constructed in 2002, with a maximum capacity of 750 pounds of powder coating per hour, with particulate emissions controlled by baghouse, BHN, and exhausting inside.

Under 40 CFR 63, Subpart CCCCCC, this unit is considered an affected facility.

- (d) One (1) metallic bonding operation, identified as Bonding Line 1, constructed in 2024, with a maximum capacity of 3,354 pounds of powder per hour, using baghouse DC-713 and wet scrubber DC-714 for particulate control, and exhausting inside, consisting of:
 - (1) Coating powder unloading operation, dumping bags of coating powders into enclosed transferring containers, with particulate controlled by baghouse DC-713.
 - (2) Metallic powder unloading operation, dumping bags of metallic powders into the weigh station and enclosed transferring containers, with particulate controlled by wet scrubber DC-714.
 - (3) Enclosed conveying of coating and metallic powders to hopper and enclosed bonding mixer.
 - (4) Loading of mixed powders into an enclosed cooler and from the cooler to enclosed transferring containers, with particulate controlled by baghouse DC-713.
 - (5) Loading of mixed powders into a sieve, with particulate controlled by baghouse DC-713.
 - (6) Packaging of mixed powders, with particulate controlled by baghouse DC-713.

Under 40 CFR 63, Subpart CCCCCC, this unit is considered an affected facility.

- (e) One (1) metallic bonding operation, identified as Bonding Line 2, constructed in 2024, with a maximum capacity of 1,677 pounds of powder per hour, equipped with material recovery cyclones for DC-713 and DC-715, using baghouse DC-713 and wet scrubber DC-715 for particulate control, and exhausting inside, consisting of:

- (1) Coating powder unloading operation, dumping bags of coating powders into enclosed transferring containers, with particulate controlled by baghouse DC-713.
- (2) Metallic powder unloading operation, dumping bags of metallic powders into the weigh station and enclosed transferring containers, with particulate controlled by wet scrubber DC-715.
- (3) Enclosed conveying of coating and metallic powders to hopper and enclosed bonding mixer.
- (4) Loading of mixed powders into an enclosed cooler and from the cooler to enclosed transferring containers, with particulate controlled by baghouse DC-713.
- (5) Loading of mixed powders into a sieve, with particulate controlled by baghouse DC-713.
- (6) Packaging of mixed powders, with particulate controlled by baghouse DC-713.

Under 40 CFR 63, Subpart CCCCCC, this unit is considered an affected facility.

- (f) One (1) maintenance abrasive blast cabinet utilizing walnut shells, approved in 2024 for construction, with a flow rate of one hundred two and nine tenths pounds per hour. using no control and exhausting indoors.
- (g) One (1) Mixaco product blender, identified as Mixaco, approved in 2024 for construction, with a maximum capacity of 7,500 pounds of powder per hour, using baghouse DC-713 as control, and exhausting indoors.

Under 40 CFR 63, Subpart CCCCCC, this unit is considered an affected facility.

- (h) One (1) Supersac metallic powder unloading process, identified as Supersac, approved in 2024 for construction, with a maximum capacity of 1,600 pounds per hour, using baghouse DC-713 as control, and exhausting indoors.

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

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

- (a) One (1) solvent clean-up operation constructed in 2002, using a maximum of 55 gallons per week of 60% MEK, 40% Acetone solution.
- (b) Seventeen (17) indirect natural gas-fired air handling units consisting of:
 - 1) Thirteen (13) natural gas-fired air handling units, identified as units AHU1 through AHU13, constructed in 2002, with a total maximum heat input capacity of 6.63 MMBtu/hr.
 - 2) Four (4) natural gas-fired air handling units, identified as units AHU14 through AHU17, permitted in 2024, with a total maximum heat input capacity of 4.0 MMBtu/hr.
- (c) Seven (7) natural gas-fired ovens, identified as ovens H1 through H7, constructed in 2002, each with a maximum heat input capacity of 0.05 MMBtu/hr.

- (d) One (1) natural gas-fired oven, identified as H8, permitted in 2023, with a maximum capacity of 0.10 MMBtu per hour, using no controls, and exhausting outdoors.
- (e) Paved roads.
- (f) One (1) Research and Development Laboratory.
- (g) One (1) Quality Assurance Laboratory.
- (h) Quality control and technical lab activities, including:
 - 1) Vented lab hoods, constructed in 2003;
 - 2) Sample ovens, with a total heat input capacity of 0.05 MMBtu per hour, constructed in 2003;
 - 3) Sixteen (16) electrostatic powder coating booths used to coat sample pieces, 11 constructed in 2003, 2 constructed in 2007, 1 constructed in 2018, and 2 constructed in 2023.
- (i) A maintenance area for welding and hot work utilizing handheld tools, exhausted to maintenance ventilation equipped with dry filters, and exhausting to Stack M1.
- (j) One (1) Electric Bake oven for the cleaning of powder screws, approved in 2021 for construction, with a maximum capacity of twenty (20) powder screws per week, using maintenance ventilation equipped with dry filters, and exhausting to Stack M1.
- (k) One (1) central vacuum system used solely for housekeeping on a needs basis and exhausting outside. The central vacuum system is not for complying with any regulatory requirements of the permit.

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

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

SECTION B GENERAL CONDITIONS

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

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

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

- (a) This permit, F021-47529-00062, is issued for a fixed term of ten (10) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, until the renewal permit has been issued or denied.

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

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

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

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

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

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

The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

B.6 Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]

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

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

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

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

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

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

- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. All certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted no later than July 1 of each year to:
- Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
- (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
 - (2) The compliance status;
 - (3) Whether compliance was continuous or intermittent;
 - (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-8-4(3); and
 - (5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ may require to determine the compliance status of the source.

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

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

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

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

(a) A Preventive Maintenance Plan meets the requirements of 326 IAC 1-6-3 if it includes, at a minimum:

- (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.

The Permittee shall implement the PMPs.

(b) If required by specific condition(s) in Section D of this permit where no PMP was previously required, 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.

(c) 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).

- (d) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

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

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

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

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

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

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

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

- (A) A description of the emergency;

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

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

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

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

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

- (a) All terms and conditions of permits established prior to F021-47529-00062 and issued pursuant to permitting programs approved into the state implementation plan have been either:
 - (1) incorporated as originally stated,
 - (2) revised, or

(3) deleted.

(b) All previous registrations and permits are superseded by this permit.

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

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

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

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

(b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ determines any of the following:

(1) That this permit contains a material mistake.

(2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.

(3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-8-8(a)]

(c) Proceedings by IDEM, OAQ to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-8-8(b)]

(d) The reopening and revision of this permit, under 326 IAC 2-8-8(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

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

(a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-8-3. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(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.17 Permit Amendment or Revision [326 IAC 2-8-10][326 IAC 2-8-11.1]

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

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

- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-8-15(b) 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.19 Source Modification Requirement [326 IAC 2-8-11.1]

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

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

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

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

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

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

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

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

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

- (a) The Permittee shall pay annual fees to IDEM, OAQ no later than thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.
- (b) Failure to pay may result in administrative enforcement action or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-8590 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.23 Credible Evidence [326 IAC 2-8-4(3)][326 IAC 2-8-5][62 FR 8314] [326 IAC 1-1-6]

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

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

C.1 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]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1.

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

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

C.6 Fugitive Dust Emissions [326 IAC 6-4]

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

C.7 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

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

- (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]

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)]

- (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)]

- (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 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.13 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.14 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.15 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.16 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]

- (a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. 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) 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.17 Compliance with 40 CFR 82 and 326 IAC 22-1

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

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (a) One (1) manual batch mixing operations, identified as MBM, constructed in 2002, with a maximum capacity of 4,100 pound per hour, with particulate emissions from filling operations controlled by baghouse, BHN, exhausting inside;

Under 40 CFR 63, Subpart CCCCCC, this unit is considered an affected facility.

- (b) Eight (8) batch process powder coating manufacturing lines, each consisting of:
 - (1) One (1) mixer including batch weighing, charging, manual filling, and closed lid mixing, with particulate emissions from filling are controlled by a baghouse;
 - (2) One (1) mixer hopper;
 - (3) One (1) feeder auger, with particulate emissions controlled by a baghouse;
 - (4) One (1) extruder;
 - (5) One (1) chiller conveyor;
 - (6) One (1) chipper;
 - (7) One (1) mill including an internal sifting system and a product control cyclone, with particulate emissions controlled by a baghouse;

ID	Batch Size	Maximum Capacity (lbs of powder coating/hr)	Limiting Process	Mixer and Feeder Auger Baghouse ID	Mixer and Feeder Auger Exhaust	Mill Baghouse ID	Mill Exhaust	Construction Date
SB-1	Small	240	Airflow	BHN	Inside	BH1	Stack 1	2002
SB-2	Small	240	Airflow	BHN	Inside	BH2	Stack 2	2002
SB-3	Small	520	Mill	BHN	Inside	BH3	Stack 3	2011
Line 1	Medium	2,100	Extruder	BHN	Inside	BH4	Stack 4	2002
Line 2	Medium	1,800	Mill	BHN	Inside	BH5	Stack 5	2011
Line 3	Large	4,100	Mill	BHN	Inside	BH6	Stack 6	2011
Line 4	Medium	3,000	Airflow	BHN	Inside	BH7	Stack 7	2002
Line 5	Large	2,100	Extruder	BHN	Inside	BH8	Stack 8	2002

Under 40 CFR 63, Subpart CCCCCC, these units are considered affected facilities.

- (c) One (1) powder coating blender, identified as PCB, constructed in 2002, with a maximum capacity of 750 pounds of powder coating per hour, with particulate emissions controlled by baghouse, BHN, and exhausting inside.

Under 40 CFR 63, Subpart CCCCCC, this unit is considered an affected facility.

- (d) One (1) metallic bonding operation, identified as Bonding Line 1, constructed in 2024, with a maximum capacity of 3,354 pounds of powder per hour, using baghouse DC-713 and wet scrubber DC-714 for particulate control, and exhausting inside, consisting of:
 - (1) Coating powder unloading operation, dumping bags of coating powders into enclosed transferring containers, with particulate controlled by baghouse DC-713.
 - (2) Metallic powder unloading operation, dumping bags of metallic powders into the weigh station and enclosed transferring containers, with particulate controlled by wet scrubber DC-714.

- (3) Enclosed conveying of coating and metallic powders to hopper and enclosed bonding mixer.
- (4) Loading of mixed powders into an enclosed cooler and from the cooler to enclosed transferring containers, with particulate controlled by baghouse DC-713.
- (5) Loading of mixed powders into a sieve, with particulate controlled by baghouse DC-713.
- (6) Packaging of mixed powders, with particulate controlled by baghouse DC-713.

Under 40 CFR 63, Subpart CCCCCC, this unit is considered an affected facility.

- (e) One (1) metallic bonding operation, identified as Bonding Line 2, constructed in 2024, with a maximum capacity of 1,677 pounds of powder per hour, equipped with material recovery cyclones for DC-713 and DC-715, using baghouse DC-713 and wet scrubber DC-715 for particulate control, and exhausting inside, consisting of:

- (1) Coating powder unloading operation, dumping bags of coating powders into enclosed transferring containers, with particulate controlled by baghouse DC-713.
- (2) Metallic powder unloading operation, dumping bags of metallic powders into the weigh station and enclosed transferring containers, with particulate controlled by wet scrubber DC-715.
- (3) Enclosed conveying of coating and metallic powders to hopper and enclosed bonding mixer.
- (4) Loading of mixed powders into an enclosed cooler and from the cooler to enclosed transferring containers, with particulate controlled by baghouse DC-713.
- (5) Loading of mixed powders into a sieve, with particulate controlled by baghouse DC-713.
- (6) Packaging of mixed powders, with particulate controlled by baghouse DC-713.

Under 40 CFR 63, Subpart CCCCCC, this unit is considered an affected facility.

- (f) One (1) maintenance abrasive blast cabinet utilizing walnut shells, approved in 2024 for construction, with a flow rate of 102.9 pounds per hour, using no control, and exhausting indoors.
- (g) One (1) Mixaco product blender, identified as Mixaco, approved in 2024 for construction, with a maximum capacity of 7,500 pounds of powder per hour, using baghouse DC-713 as control, and exhausting indoors.

Under 40 CFR 63, Subpart CCCCCC, this unit is considered an affected facility.

- (h) One (1) Supersac metallic powder unloading process, identified as Supersac, approved in 2024 for construction, with a maximum capacity of 1,600 pounds per hour, using baghouse DC-713 as control, and exhausting indoors.

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

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

D.1.1 PSD Minor Limits [326 IAC 2-2]

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

Emission Units	PM (lbs/hr)
Mixers and Extrusion Operations at SB-1 through SB-3, Line 1 through Line 5, MBM, and PCB	5.83 (total)
SB-1 mill	0.60
SB-2 mill	0.60
SB-3 mill	0.60
Line 1 mill	0.60
Line 2 mill	0.60
Line 3 mill	0.60
Line 4 mill	0.60
Line 5 mill	0.60
DC-713: Bonding Lines 1 and 2	6.79
DC-713: Mixaco and Supersac	

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

D.1.2 FESOP, PSD and HAP Minor Limits [326 IAC 2-8-4][326 IAC 2-2][326 IAC 2-4.1]

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

Emission Units	PM10 (lbs/hr)	PM2.5 (lbs/hr)	Combined HAPs (lbs/hr)	Single HAP (lbs/hr)
Mixers and Extrusion Operations at SB-1 through SB-3, Line 1 through Line 5, MBM, PCB	5.83 (total)	5.83 (total)	1.75 (total)	0.58 (total)
SB-1 mill	0.60	0.60	0.18	0.06
SB-2 mill	0.60	0.60	0.18	0.06
SB-3 mill	0.60	0.60	0.18	0.06
Line 1 mill	0.60	0.60	0.18	0.06
Line 2 mill	0.60	0.60	0.18	0.06
Line 3 mill	0.60	0.60	0.18	0.06
Line 4 mill	0.60	0.60	0.18	0.06
Line 5 mill	0.60	0.60	0.18	0.06
DC-713: Bonding Lines 1 and 2	6.79	6.79	2.04	0.68
DC-713: Mixaco and Supersac				

Compliance with these limits, combined with the potential to emit PM₁₀ and PM_{2.5} from all other emission units at this source, shall limit the source-wide total potential to emit of PM₁₀ and PM_{2.5} to less than 100 tons per twelve (12) consecutive month period, each, and shall render the requirements of 326 IAC 2-7 (Part 70 Permits) not applicable.

D.1.3 Particulate Emission Limitations from Manufacturing Processes [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2, particulate emissions shall be limited as follows:

Process		Process Weight Rate (tons/hr)	Allowable Particulate Emission Rate (326 IAC 6-3-2) (lb/hr)
SB-1	mixer and feed auger	0.12	0.99
	mill	0.12	0.99
SB-2	mixer and feed auger	0.12	0.99
	mill	0.12	0.99
SB-3	mixer and feed auger	0.26	1.66
	mill	0.26	1.66
Line 1	mixer and feed auger	1.05	4.24
	mill	1.05	4.24
Line 2	mixer and feed auger	0.9	3.82
	mill	0.9	3.82
Line 3	mixer and feed auger	2.05	6.63
	mill	2.05	6.63
Line 4	mixer and feed auger	1.5	5.38
	mill	1.5	5.38
Line 5	mixer and feed auger	1.05	4.24
	mill	1.05	4.24
PCB		0.38	2.14
MBM		2.05	6.63
DC-713: Bonding Line 1		1.68	5.80
DC-713: Bonding Line 2		0.84	3.64
DC-713: Mixaco and Supersac Processes		3.75	9.94

The pound per hour limitations were 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:

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

The compliance with Allowable Particulate Emission Rates for the emission units associated with the baghouse BHN shall be determined using the testing as required under Condition D.1.5(a). The process weight rates of all the emission units associated with the baghouse BHN shall be added and the sum value shall be used in the process weight rate equation to determine the compliance with the Allowable Particulate Emission Rates for the emission units associated with the baghouse BHN.

The compliance with Allowable Particulate Emission Rates for the emission units associated with the baghouse DC-713 shall be determined using the testing as required under Condition D.1.5(c). The process weight rates of all the emission units associated with the baghouse DC-713 shall be added and the sum value shall be used in the process weight rate equation to determine the compliance with the Allowable Particulate Emission Rates for the emission units associated with the baghouse DC-713.

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

A Preventive Maintenance Plan is required for these facilities and any 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.1.5 Testing Requirements [326 IAC 2-1.1-11]

- (a) In order to demonstrate compliance with Conditions D.1.1 and D.1.2, the Permittee shall conduct PM, PM10, and PM2.5 testing on the baghouse BHN at least once every five (5) years from the date of the most recent valid compliance demonstration.
- PM10 and PM2.5 includes filterable and condensable PM.
- (b) In order to demonstrate compliance with Conditions D.1.1 and D.1.2, the Permittee shall conduct PM, PM10, and PM2.5 testing on one of the baghouses BH5, BH6, or BH8 at least once every five (5) years from the date of the most recent valid compliance demonstration. These tests shall be conducted on the baghouses BH5, BH6, and BH8 such that the time period for the testing for these baghouses does not exceed 15 years.
- PM10 and PM2.5 includes filterable and condensable PM.
- (c) Not later than 180 days after the startup of Bonding Line 1, Bonding Line 2, and Mixaco and Supersac Processes, in order to demonstrate compliance with Conditions D.1.1 and D.1.2, the Permittee shall perform PM, PM10, and PM2.5 testing of the baghouse DC-713 outlet at least once every five (5) years from the date of the most recent valid compliance demonstration.
- PM10 and PM2.5 includes filterable and condensable PM.
- (d) Testing shall be conducted using methods approved by the Commissioner and in accordance with the provisions of 326 IAC 3-6-3 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition.

D.1.6 Particulate Control

- (a) In order to assure compliance with Conditions D.1.1, D.1.2, and D.1.3, the baghouses BHN, BH-1 through BH-8, and DC-713 for particulate control shall be in operation and control emissions at all times when one or more of the processes associated with these baghouses is in operation.
- (b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) day or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the result of any response actions take up to the time of notification.

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

D.1.7 Parametric Monitoring

The Permittee shall record the pressure drop across the baghouses BH-1 through BH-8, used in conjunction with the powder coating manufacturing operation, and baghouse DC-713, used in conjunction with the metallic bonding operations, Mixaco product blender, and Supersac unloading process, at least once per day when one or more of the processes associated with these baghouses is in operation. When, for any one reading, the pressure drop across the baghouse is outside the normal range, the Permittee shall take a reasonable response. The normal range for this unit is a pressure drop between 1.0 to 6.0 inches of water unless a different upper-bound or lower-bound value for this range is determined during the latest stack test. Section C - Response to Excursions and Exceedances contains the Permittee's obligation with

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

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

D.1.8 Broken or Failed Bag Detection

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

Bag failure can be indicated by a significant drop in the baghouse's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows.

D.1.9 Baghouse Inspections

The Permittee shall perform semi-annual inspections of the baghouse BHN to verify it is being operated and maintained in accordance with the manufacturer's specifications. Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.

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

D.1.10 Record Keeping Requirements

- (a) To document the compliance status with HAPs limits in Condition D.1.2, the Permittee shall maintain records in accordance with (1) and (2) below:
 - (1) results of the PM, PM10 and PM2.5 testing, as required under Condition D.1.5
 - (2) weight fraction of HAPs in the raw material used to produce powder coatingRecords shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the weight fraction of HAPs.
- (b) To document the compliance status with Condition D.1.7, the Permittee shall maintain daily records of the pressure drop across the baghouses controlling the powder coating manufacturing operation and DC-713. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (i.e. the process did not operate that day).
- (c) To document the compliance status with Condition D.1.9, the Permittee shall maintain records of the dates and results of the inspections.
- (d) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (b) Seventeen (17) indirect natural gas-fired air handling units consisting of:
- 1) Thirteen (13) natural gas-fired air handling units, identified as units AHU1 through AHU13, constructed in 2002, with a total maximum heat input capacity of 6.63 MMBtu/hr.
 - 2) Four (4) natural gas-fired air handling units, identified as units AHU14 through AHU17, permitted in 2024, with a total maximum heat input capacity of 4.0 MMBtu/hr.

(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 [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating), the PM emissions from the following units shall be limited to the PM emission limit (Pt) in pounds per MMBtu heat input as specified in the following table:

Unit IDs	Year of Construction	Pt (lb/MMBtu) (each)
AHU 1-3	2002	0.60
AHU 4-7	2002	0.60
AHU 8	2002	0.60
AHU 9-10	2002	0.60
AHU 11-13	2002	0.60
AHU 14-17	2024	0.59

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

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

SECTION E.1

NESHAP

Emissions Unit Description:

- (a) One (1) manual batch mixing operations, identified as MBM, constructed in 2002, with a maximum capacity of 4,100 pound per hour, with particulate emissions from filling operations controlled by baghouse, BHN, exhausting inside.

Under 40 CFR 63, Subpart CCCCCC, this unit is considered an affected facility.

- (b) Eight (8) batch process powder coating manufacturing lines, each consisting of:
 - (1) One (1) mixer including batch weighing, charging, manual filling, and closed lid mixing, particulate emissions from filling are controlled by a baghouse;
 - (2) One (1) mixer hopper;
 - (3) One (1) feeder auger, with particulate emissions controlled by a baghouse;
 - (4) One (1) extruder;
 - (5) One (1) chiller conveyor;
 - (6) One (1) chipper;
 - (7) One (1) mill including an internal sifting system, and a product control cyclone with particulate emissions controlled by a baghouse;

ID	Batch Size	Maximum Capacity (lbs of powder coating/hr)	Limiting Process	Mixer and Feeder Auger Baghouse ID	Mixer and Feeder Auger Exhaust	Mill Baghouse ID	Mill Exhaust	Construction Date
SB-1	Small	240	Airflow	BHN	Inside	BH1	Stack 1	2002
SB-2	Small	240	Airflow	BHN	Inside	BH2	Stack 2	2002
SB-3	Small	520	Mill	BHN	Inside	BH3	Stack 3	2011
Line 1	Medium	2,100	Extruder	BHN	Inside	BH4	Stack 4	2002
Line 2	Medium	1,800	Mill	BHN	Inside	BH5	Stack 5	2011
Line 3	Large	4,100	Mill	BHN	Inside	BH6	Stack 6	2011
Line 4	Medium	3,000	Airflow	BHN	Inside	BH7	Stack 7	2002
Line 5	Large	2,100	Extruder	BHN	Inside	BH8	Stack 8	2002

Under 40 CFR 63, Subpart CCCCCC, these units are considered affected facilities.

- (c) One (1) powder coating blender, identified as PCB, constructed in 2002, with a maximum capacity of 750 pounds of powder coating per hour, with particulate emissions controlled by baghouse, BHN, exhausting inside.

Under 40 CFR 63, Subpart CCCCCC, this unit is considered an affected facility.

- (d) One (1) metallic bonding operation, identified as Bonding Line 1, approved in 2021 for construction, with a maximum capacity of 3,354 pounds of powder per hour, equipped with material recovery cyclones for DC-713 and DC-714, using baghouse DC-713 and wet scrubber DC-714 for particulate control, and exhausting inside, consisting of:
 - (1) Coating powder unloading operation, dumping bags of coating powders into enclosed transferring containers, with particulate controlled by baghouse DC-713.
 - (2) Metallic powder unloading operation, dumping bags of metallic powders into the weigh station and enclosed transferring containers, with particulate controlled by wet

scrubber DC-714.

- (3) Enclosed conveying of coating and metallic powders to hopper and enclosed bonding mixer.
- (4) Loading of mixed powders into an enclosed cooler and from the cooler to enclosed transferring containers, with particulate controlled by baghouse DC-713.
- (5) Loading of mixed powders into a sieve, with particulate controlled by baghouse DC-713.
- (6) Packaging of mixed powders, with particulate controlled by baghouse DC-713.

Under 40 CFR 63, Subpart CCCCCC, this unit is considered an affected facility.

- (e) One (1) metallic bonding operation, identified as Bonding Line 2, approved in 2021 for construction, with a maximum capacity of 1,677 pounds of powder per hour, equipped with material recovery cyclones for DC-713 and DC-715, using baghouse DC-713 and wet scrubber DC-715 for particulate control, and exhausting inside, consisting of:

- (1) Coating powder unloading operation, dumping bags of coating powders into enclosed transferring containers, with particulate controlled by baghouse DC-713.
- (2) Metallic powder unloading operation, dumping bags of metallic powders into the weigh station and enclosed transferring containers, with particulate controlled by wet scrubber DC-715.
- (3) Enclosed conveying of coating and metallic powders to hopper and enclosed bonding mixer.
- (4) Loading of mixed powders into an enclosed cooler and from the cooler to enclosed transferring containers, with particulate controlled by baghouse DC-713.
- (5) Loading of mixed powders into a sieve, with particulate controlled by baghouse DC-713.
- (6) Packaging of mixed powders, with particulate controlled by baghouse DC-713.

Under 40 CFR 63, Subpart CCCCCC, this unit is considered an affected facility.

- (g) One (1) Mixaco product blender, identified as Mixaco, permitted in 2024 for construction, with a maximum capacity of 7,500 pounds of powder per hour, using baghouse DC-713 as control, and exhausting indoors.

Under 40 CFR 63, Subpart CCCCCC, this unit is considered an affected facility.

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

**National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements
[326 IAC 2-8-4(1)]**

**E.1.1 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants under
40 CFR Part 63 [326 IAC 20-1] [40 CFR Part 63, Subpart A]**

- (a) Pursuant to 40 CFR 63.1 the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-1, for the emission unit(s) listed above, except as otherwise specified in 40 CFR Part 63, Subpart CCCCCC.
- (b) Pursuant to 40 CFR 63.10, the Permittee shall submit all required notifications and reports 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

**E.1.2 National Emission Standards for Hazardous Air Pollutants for Area Sources: Paints and Allied
Products Manufacturing NESHAP [40 CFR Part 63, Subpart CCCCCC]**

The Permittee which engages in operation of paint manufacturing at an area source shall comply with the following provisions of 40 CFR Part 63, Subpart CCCCCC (included as Attachment A of this permit) with a compliance date of December 3, 2012:

- (a) 40 CFR 63.11599 (a), (b)
- (b) 40 CFR 63.11600 (a)
- (c) 40 CFR 63.11601
- (d) 40 CFR 63.11602 (testing)
- (e) 40 CFR 63.11603
- (f) 40 CFR 63.11605
- (g) 40 CFR 63.11606
- (h) 40 CFR 63.11607
- (i) Table 1

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

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

Source Name: PPG Brazil Powder
Source Address: 2831 E Industrial Park Dr., Brazil, Indiana 47834
FESOP Permit No.: F021-47529-00062

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:

Email Address:

Phone:

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: PPG Brazil Powder
Source Address: 2831 E Industrial Park Dr., Brazil, Indiana 47834
FESOP Permit No.: F021-47529-00062

This form consists of 2 pages

Page 1 of 2

- | |
|---|
| <input type="checkbox"/> This is an emergency as defined in 326 IAC 2-7-1(12) <ul style="list-style-type: none">• The Permittee must notify the Office of Air Quality (OAQ), within four (4) 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 ₂ , VOC, NO _x , CO, Pb, other:		
Estimated amount of pollutant(s) emitted during emergency:		
Describe the steps taken to mitigate the problem:		
Describe the corrective actions/response steps taken:		
Describe the measures taken to minimize emissions:		
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:		

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

**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: PPG Brazil Powder
 Source Address: 2831 E Industrial Park Dr., Brazil, Indiana 47834
 FESOP Permit No.: F021-47529-00062

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

<p>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".</p>	
<input type="checkbox"/> NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.	
<input type="checkbox"/> THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

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

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

Attachment A

Federally Enforceable State Operating Permit (FESOP) No: 021-47529-00062

[Downloaded from the eCFR on May 14, 2021]

Electronic Code of Federal Regulations

Title 40: Protection of Environment

PART 63—NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR SOURCE CATEGORIES

Subpart CCCCCC—National Emission Standards for Hazardous Air Pollutants for Area Sources: Paints and Allied Products Manufacturing

SOURCE: 74 FR 63525, Dec. 3, 2009, unless otherwise noted.

APPLICABILITY AND COMPLIANCE DATES

§63.11599 Am I subject to this subpart?

(a) You are subject to this subpart if you own or operate a facility that performs paints and allied products manufacturing that is an area source of hazardous air pollutant (HAP) emissions and processes, uses, or generates materials containing HAP, as defined in §63.11607.

(b) The affected source consists of all paints and allied products manufacturing processes that process, use, or generate materials containing HAP at the facility.

(1) An affected source is existing if you commenced construction or reconstruction before June 1, 2009.

(2) An affected source is new if you commenced construction or reconstruction of the affected source on or after June 1, 2009.

(3) A facility becomes an affected source when you commence processing, using, or generating materials containing HAP, as defined in §63.11607.

(c) You are exempt from the obligation to obtain a permit under 40 CFR part 70 or 40 CFR part 71, provided you are not otherwise required by law to obtain a permit under 40 CFR 70.3(a) or 40 CFR 71.3(a). Whether you have a title V permit or not, you must continue to comply with the provisions of this subpart.

(d) An affected source is no longer subject to this subpart if the facility no longer processes, uses, or generates materials containing HAP and does not plan to process, use or generate materials containing HAP in the future.

(e) The standards of this subpart do not apply to research and development facilities, as defined in section 112(c)(7) of the CAA.

[74 FR 63525, Dec. 3, 2009, as amended at 75 FR 10186, Mar. 5, 2010]

§63.11600 What are my compliance dates?

(a) If you own or operate an existing affected source, you must achieve compliance with the applicable provisions in this subpart by December 3, 2012.

(b) If you own or operate a new affected source, you must achieve compliance with the applicable provisions of this subpart by December 3, 2009, or upon startup of your affected source, whichever is later.

(c) If you own or operate a facility that becomes an affected source in accordance with §63.11599(b)(3) after the applicable compliance date in paragraphs (a) or (b) of this section, you must achieve compliance with the applicable provisions of this subpart by the date that you commence processing, using, or generating materials containing HAP, as defined in §63.11607.

STANDARDS, MONITORING, AND COMPLIANCE REQUIREMENTS

§63.11601 What are the standards for new and existing paints and allied products manufacturing facilities?

(a) For each new and existing affected source, you must comply with the requirements in paragraphs (a)(1) through (5) of this section. These requirements apply at all times.

(1) You must add the dry pigments and solids that contain compounds of cadmium, chromium, lead, or nickel and operate a capture system that minimizes fugitive particulate emissions during the addition of dry pigments and solids that contain compounds of cadmium, chromium, lead, or nickel to a process vessel or to the grinding and milling process.

(2) You must capture particulate emissions and route them to a particulate control device meeting the requirements of paragraph (a)(6) of this section during the addition of dry pigments and solids that contain compounds of cadmium, chromium, lead, or nickel to a process vessel. This requirement does not apply to pigments and other solids that are in paste, slurry, or liquid form.

(3) You must:

(i) Capture particulate emissions and route them to a particulate control device meeting the requirements of paragraph (a)(6) of this section during the addition of dry pigments and solids that contain compounds of cadmium, chromium, lead, or nickel to the grinding and milling process; or

(ii) Add pigments and other solids that contain compounds of cadmium, chromium, lead, or nickel to the grinding and milling process only in paste, slurry, or liquid form.

(4) You must:

(i) Capture particulate emissions and route them to a particulate control device meeting the requirements of paragraph (a)(5) of this section during the grinding and milling of materials containing compounds of cadmium, chromium, lead, or nickel; or

(ii) Fully enclose the grinding and milling equipment during the grinding and milling of materials containing compounds of cadmium, chromium, lead, or nickel; or

(iii) Ensure that the pigments and solids are in the solution during the grinding and milling of materials containing compounds of cadmium, chromium, lead, or nickel.

(5) The visible emissions from the particulate control device exhaust must not exceed 10-percent opacity for particulate control devices that vent to the atmosphere. This requirement does not apply to particulate control devices that do not vent to the atmosphere.

(6) [Reserved]

(b) For each new and existing affected source, you must comply with the requirements in paragraphs (b)(1) through (5) of this section.

(1) Process and storage vessels that store or process materials containing benzene or methylene chloride, except for process vessels which are mixing vessels, must be equipped with covers or lids meeting the requirements of paragraphs (b)(1)(i) through (iii) of this section.

(i) The covers or lids can be of solid or flexible construction, provided they do not warp or move around during the manufacturing process.

(ii) The covers or lids must maintain contact along at least 90-percent of the vessel rim. The 90-percent contact requirement is calculated by subtracting the length of any visible gaps from the circumference of the process vessel, and dividing this number by the circumference of the process vessel. The resulting ratio must not exceed 90-percent.

(iii) The covers or lids must be maintained in good condition.

(2) Mixing vessels that store or process materials containing benzene or methylene chloride must be equipped with covers that completely cover the vessel, except as necessary to allow for safe clearance of the mixer shaft.

(3) All vessels that store or process materials containing benzene or methylene chloride must be kept covered at all times, except for quality control testing and product sampling, addition of materials, material removal, or when the vessel is empty. The vessel is empty if:

(i) All materials containing benzene or methylene chloride have been removed that can be removed using the practices commonly employed to remove materials from that type of vessel, e.g., pouring, pumping, and aspirating; and

(ii) No more than 2.5 centimeters (one inch) depth of residue remains on the bottom of the vessel, or no more than 3 percent by weight of the total capacity of the vessel remains in the vessel.

(4) Leaks and spills of materials containing benzene or methylene chloride must be minimized and cleaned up as soon as practical, but no longer than 1 hour from the time of detection.

(5) Rags or other materials that use a solvent containing benzene or methylene chloride for cleaning must be kept in a closed container. The closed container may contain a device that allows pressure relief, but does not allow liquid solvent to drain from the container.

[74 FR 63525, Dec. 3, 2009, as amended at 75 FR 10186, Mar. 5, 2010]

§63.11602 What are the performance test and compliance requirements for new and existing sources?

(a) For each new and existing affected source, you must demonstrate initial compliance by conducting the inspection and monitoring activities in paragraph (a)(1) of this section and ongoing compliance by conducting the inspection and testing activities in paragraph (a)(2) of this section.

(1) Initial particulate control device inspections and tests. You must conduct an initial inspection of each particulate control device according to the requirements in paragraphs (a)(1)(i) through (iii) of this section and perform a visible emissions test according to the requirements of paragraph (a)(1)(iv) of this section. You must record the results of each inspection and test according to paragraph (b) of this section and perform corrective action where necessary. You must conduct each inspection no later than 180 days after your applicable compliance date for each control device which has been operated within 60 days following the compliance date. For a control device which has not been installed or operated within 60 days following the compliance date, you must conduct an initial inspection prior to startup of the control device.

(i) For each wet particulate control system, you must verify the presence of water flow to the control equipment. You must also visually inspect the system ductwork and control equipment for leaks and inspect the interior of the control equipment (if applicable) for structural integrity and the condition of the control system.

(ii) For each dry particulate control system, you must visually inspect the system ductwork and dry particulate control unit for leaks. You must also inspect the inside of each dry particulate control unit for structural integrity and condition.

(iii) An initial inspection of the internal components of a wet or dry particulate control system is not required if there is a record that an inspection meeting the requirements of this subsection has been performed within the past 12 months and any maintenance actions have been resolved.

(iv) For each particulate control device, you must conduct a visible emission test consisting of three 1-minute test runs using Method 203C (40 CFR part 51, appendix M). The visible emission test runs must be performed during the addition of dry pigments and solids containing compounds of cadmium, chromium, lead, or nickel to a process vessel or to the grinding and milling equipment. If the average test results of the visible emissions test runs indicate an opacity greater than the applicable limitation in §63.11601(a), you must take corrective action and retest within 15 days.

(2) Ongoing particulate control device inspections and tests. Following the initial inspections, you must perform periodic inspections of each PM control device according to the requirements in paragraphs (a)(2)(i) or (ii) of this section. You must record the results of each inspection according to paragraph (b) of this section and perform corrective action where necessary. You must also conduct tests according to the requirements in paragraph (a)(2)(iii) of this section and record the results according to paragraph (b) of this section.

(i) You must inspect and maintain each wet particulate control system according to the requirements in paragraphs (a)(2)(i)(A) through (C) of this section.

(A) You must conduct a daily inspection to verify the presence of water flow to the wet particulate control system.

(B) You must conduct weekly visual inspections of any flexible ductwork for leaks.

(C) You must conduct inspections of the rigid, stationary ductwork for leaks, and the interior of the wet control system (if applicable) to determine the structural integrity and condition of the control equipment every 12 months.

(ii) You must inspect and maintain each dry particulate control unit according to the requirements in paragraphs (a)(2)(ii)(A) and (B) of this section.

(A) You must conduct weekly visual inspections of any flexible ductwork for leaks.

(B) You must conduct inspections of the rigid, stationary ductwork for leaks, and the interior of the dry particulate control unit for structural integrity and to determine the condition of the fabric filter (if applicable) every 12 months.

(iii) For each particulate control device, you must conduct a 5-minute visual determination of emissions from the particulate control device every 3 months using Method 22 (40 CFR part 60, appendix A-7). The visible emission test must be performed during the addition of dry pigments and solids containing compounds of cadmium, chromium, lead, or nickel to a process vessel or to the grinding and milling equipment. If visible emissions are observed for two minutes of the required 5-minute observation period, you must conduct a Method 203C (40 CFR part 51, appendix M) test within 15 days of the time when visible emissions were observed. The Method 203C test will consist of three 1-minute test runs and must be performed during the addition of dry pigments and solids containing compounds of cadmium, chromium, lead, or nickel HAP to a process vessel or to the grinding and milling equipment. If the Method 203C test runs indicates an opacity greater than the limitation in §63.11601(a)(5), you must comply with the requirements in paragraphs (a)(2)(iii)(A) through (C) of this section.

(A) You must take corrective action and retest using Method 203C within 15 days. The Method 203C test will consist of three 1-minute test runs and must be performed during the addition of dry pigments and solids containing compounds of cadmium, chromium, lead, or nickel to a process vessel or to the grinding and milling equipment. You must continue to take corrective action and retest each 15 days until a Method 203C test indicates an opacity equal to or less than the limitation in §63.11601(a)(5).

(B) You must prepare a deviation report in accordance with §63.11603(b)(3) for each instance in which the Method 203C opacity results were greater than the limitation in §63.11601(a)(5).

(C) You must resume the visible determinations of emissions from the particulate control device in accordance with paragraph (a)(2)(iii) of this section 3 months after the previous visible determination.

(b) You must record the information specified in paragraphs (b)(1) through (6) of this section for each inspection and testing activity.

- (1) The date, place, and time;
- (2) Person conducting the activity;
- (3) Technique or method used;
- (4) Operating conditions during the activity;
- (5) Results; and
- (6) Description of correction actions taken.

[74 FR 63525, Dec. 3, 2009, as amended at 75 FR 10186, Mar. 5, 2010]

§63.11603 What are the notification, reporting, and recordkeeping requirements?

(a) *Notifications.* You must submit the notifications identified in paragraphs (a)(1) and (2) of this section.

(1) *Initial Notification of Applicability.* If you own or operate an existing affected source, you must submit an initial notification of applicability required by §63.9(b)(2) no later than June 1, 2010, or no later than 120 days after the source becomes subject to this subpart, whichever is later. If you own or operate a new affected source, you must submit an initial notification of applicability required by §63.9(b)(2) no later than 180 days after initial start-up of the operations, or no later than 120 days after the source becomes subject to this subpart, or June 1, 2010, whichever is later. The notification of applicability must include the information specified in paragraphs (a)(1)(i) through (iii) of this section.

- (i) The name and address of the owner or operator;
- (ii) The address (i.e., physical location) of the affected source; and

(iii) An identification of the relevant standard, or other requirement, that is the basis of the notification and the source's compliance date.

(2) *Notification of Compliance Status.* If you own or operate an existing affected source, you must submit a Notification of Compliance Status in accordance with §63.9(h) of the General Provisions by June 3, 2013. If you own or operate a new affected source, you must submit a Notification of Compliance Status within 180 days after initial start-up, or by June 1, 2010, whichever is later. If you own or operate an affected source that becomes an affected source in accordance with §63.11599(b)(3) after the applicable compliance date in §63.11600 (a) or (b), you must submit a Notification of Compliance Status within 180 days of the date that you commence processing, using, or generating materials containing HAP, as defined in 63.11607. This Notification of Compliance Status must include the information specified in paragraphs (a)(2)(i) and (ii) of this section.

- (i) Your company's name and address;
- (ii) A statement by a responsible official with that official's name, title, phone number, e-mail address and signature, certifying the truth, accuracy, and completeness of the notification, a description of the method of

compliance (i.e., compliance with management practices, installation of a wet or dry scrubber) and a statement of whether the source has complied with all the relevant standards and other requirements of this subpart.

(b) *Annual Compliance Certification Report.* You must prepare an annual compliance certification report according to the requirements in paragraphs (b)(1) through (b)(3) of this section. This report does not need to be submitted unless a deviation from the requirements of this subpart has occurred. When a deviation from the requirements of this subpart has occurred, the annual compliance certification report must be submitted along with the deviation report.

(1) *Dates.* You must prepare and, if applicable, submit each annual compliance certification report according to the dates specified in paragraphs (b)(1)(i) through (iii) of this section.

(i) The first annual compliance certification report must cover the first annual reporting period which begins the day of the compliance date and ends on December 31.

(ii) Each subsequent annual compliance certification report must cover the annual reporting period from January 1 through December 31.

(iii) Each annual compliance certification report must be prepared no later than January 31 and kept in a readily-accessible location for inspector review. If a deviation has occurred during the year, each annual compliance certification report must be submitted along with the deviation report, and postmarked no later than February 15.

(2) *General Requirements.* The annual compliance certification report must contain the information specified in paragraphs (b)(2)(i) through (iii) of this section.

(i) Company name and address;

(ii) A statement in accordance with §63.9(h) of the General Provisions that is signed by a responsible official with that official's name, title, phone number, e-mail address and signature, certifying the truth, accuracy, and completeness of the notification and a statement of whether the source has complied with all the relevant standards and other requirements of this subpart; and

(iii) Date of report and beginning and ending dates of the reporting period. The reporting period is the 12-month period beginning on January 1 and ending on December 31.

(3) *Deviation Report.* If a deviation has occurred during the reporting period, you must include a description of deviations from the applicable requirements, the time periods during which the deviations occurred, and the corrective actions taken. This deviation report must be submitted along with your annual compliance certification report, as required by paragraph (b)(1)(iii) of this section.

(c) *Records.* You must maintain the records specified in paragraphs (c)(1) through (4) of this section in accordance with paragraphs (c)(5) through (6) of this section, for five years after the date of each recorded action.

(1) As required in §63.10(b)(2)(xiv), you must keep a copy of each notification that you submitted in accordance with paragraph (a) of this section, and all documentation supporting any Notification of Applicability and Notification of Compliance Status that you submitted.

(2) You must keep a copy of each Annual Compliance Certification Report prepared in accordance with paragraph (b) of this section.

(3) You must keep records of all inspections and tests as required by §63.11602(b).

(4) Your records must be in a form suitable and readily available for expeditious review, according to §63.10(b)(1).

(5) As specified in §63.10(b)(1), you must keep each record for 5 years following the date of each recorded action.

(6) You must keep each record onsite for at least 2 years after the date of each recorded action according to §63.10(b)(1). You may keep the records offsite for the remaining 3 years.

(d) If you no longer process, use, or generate materials containing HAP after December 3, 2009, you must submit a Notification in accordance with §63.11599(d), which must include the information specified in paragraphs (e)(1) and (2) of this section.

(1) Your company's name and address;

(2) A statement by a responsible official indicating that the facility no longer processes, uses, or generates materials containing HAP, as defined in §63.11607, and that there are no plans to process, use or generate such materials in the future. This statement should also include the date by which the company ceased using materials containing HAP, as defined in 63.11607, and the responsible official's name, title, phone number, e-mail address and signature.

[74 FR 63525, Dec. 3, 2009, as amended at 75 FR 10186, Mar. 5, 2010; 85 FR 73921, Nov. 19, 2020]

§63.11604 [Reserved]

OTHER REQUIREMENTS AND INFORMATION

§63.11605 What General Provisions apply to this subpart?

Table 1 of this subpart shows which parts of the General Provisions in §§63.1 through 63.16 apply to you.

§63.11606 Who implements and enforces this subpart?

(a) This subpart can be implemented and enforced by the U.S. EPA or a delegated authority such as a state, local, or tribal agency. If the U.S. EPA Administrator has delegated authority to a State, local, or tribal agency pursuant to 40 CFR part 63, subpart E, then that Agency has the authority to implement and enforce this subpart. You should contact your U.S. EPA Regional Office to find out if this subpart is delegated to your state, local, or tribal agency.

(b) In delegating implementation and enforcement authority of this subpart to a state, local, or tribal agency under 40 CFR part 63, subpart E, the authorities contained in paragraphs (b)(1) through (4) of this section are retained by the Administrator of the U.S. EPA and are not transferred to the State, local, or tribal agency.

(1) Approval of an alternative nonopacity emissions standard under §63.6(g).

(2) Approval of a major change to test methods under §63.7(e)(2)(ii) and (f). A "major change to test method" is defined in §63.90

(3) Approval of a major change to monitoring under §63.8(f). A "major change to monitoring" is defined in §63.90.

(4) Approval of a major change to recordkeeping/reporting under §63.10(f). A "major change to recordkeeping/reporting" is defined in §63.90. As required in §63.11432, you must comply with the requirements of the NESHAP General Provisions (40 CFR part 63, subpart A) as shown in the following table.

§63.11607 What definitions apply to this subpart?

Terms used in this subpart are defined in the Clean Air Act, §63.2, and in this section as follows:

Construction means the onsite fabrication, erection, or installation of an affected source. Addition of new equipment to an affected source does not constitute construction, but it may constitute reconstruction of the affected source if it satisfies the definition of reconstruction in §63.2.

Deviation means any instance in which an affected source subject to this subpart, or an owner or operator of such a source:

- (1) Fails to meet any requirement or management practices established by this subpart;
- (2) Fails to meet any term or condition that is adopted to implement a requirement in this subpart and that is included in the operating permit for any affected source required to obtain such a permit; or
- (3) Fails to meet any emissions limitation or management practice in this subpart.

Dry particulate control system means an air pollution control device that uses filtration, impaction, or electrical forces to remove particulate matter in the exhaust stream.

Fabric filter means an air collection and control system that utilizes a bag filter to reduce the emissions of metal HAP and other particulate matter.

Material containing HAP means a material containing benzene, methylene chloride, or compounds of cadmium, chromium, lead, and/or nickel, in amounts greater than or equal to 0.1 percent by weight for carcinogens, as defined by the Occupational Safety and Health Administration at 29 CFR 1910.1200(d)(4), or 1.0 percent by weight for non-carcinogens, as shown in formulation data provided by the manufacturer or supplier, such as the Material Safety Data Sheet for the material. Benzene and methylene chloride are volatile HAP. Compounds of cadmium, chromium, lead and/or nickel are metal HAP.

Paints and allied products means materials such as paints, inks, adhesives, stains, varnishes, shellacs, putties, sealers, caulks, and other coatings from raw materials that are intended to be applied to a substrate and consists of a mixture of resins, pigments, solvents, and/or other additives.

Paints and allied products manufacturing means the production of paints and allied products, the intended use of which is to leave a dried film of solid material on a substrate. Typically, the manufacturing processes that produce these materials are described by Standard Industry Classification (SIC) codes 285 or 289 and North American Industry Classification System (NAICS) codes 3255 and 3259 and are produced by physical means, such as blending and mixing, as opposed to chemical synthesis means, such as reactions and distillation. Paints and allied products manufacturing does not include:

- (1) The manufacture of products that do not leave a dried film of solid material on the substrate, such as thinners, paint removers, brush cleaners, and mold release agents;
- (2) The manufacture of electroplated and electroless metal films;
- (3) The manufacture of raw materials, such as resins, pigments, and solvents used in the production of paints and coatings; and
- (4) Activities by end users of paints or allied products to ready those materials for application.

Paints and allied products manufacturing process means all the equipment which collectively function to produce a paint or allied product. A process may consist of one or more unit operations. For the purposes of this subpart, the manufacturing process includes any, all, or a combination of, weighing, blending, mixing, grinding, tinting, dilution or other formulation. Cleaning operations, material storage and transfer, and piping are considered part of the manufacturing process. This definition does not cover activities by end users of paints or allied products to ready those materials for application. Quality assurance and quality control laboratories are not considered part of a paints and allied products manufacturing process. Research and development facilities, as defined in section 112(c)(7) of the CAA are not considered part of a paints and allied products manufacturing process.

Particulate matter control device means any equipment, device, or other article that is designed and/or installed for the purpose of reducing or preventing the discharge of metal HAP emissions to the atmosphere.

Process vessel means any stationary or portable tank or other vessel of any capacity and in which mixing, blending, diluting, dissolving, temporary holding, and other processing steps occur in the manufacturing of a coating.

Responsible official means one of the following:

(1) For a corporation: A president, secretary, treasurer, or vice president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities and either:

(i) The facilities employ more than 250 persons or have gross annual sales or expenditures exceeding \$25 million (in second quarter 1980 dollars); or

(ii) The delegation of authority to such representative is approved in advance by the Administrator.

(2) For a partnership or sole proprietorship: A general partner or the proprietor, respectively.

(3) For a municipality, State, Federal, or other public agency: Either a principal executive officer or ranking elected official. For the purposes of this part, a principal executive officer of a Federal agency includes the chief executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., a Regional Administrator of the EPA).

(4) For affected sources (as defined in this part) applying for or subject to a title V permit: "Responsible official" shall have the same meaning as defined in part 70 or Federal title V regulations in this chapter (42 U.S.C. 7661), whichever is applicable.

Storage vessel means a tank, container or other vessel that is used to store volatile liquids that contain one or more of the listed volatile HAP, benzene or methylene chloride, as raw material feedstocks or products. It also includes objects, such as rags or other containers which are stored in the vessel. The following are not considered storage vessels for the purposes of this subpart:

(1) Vessels permanently attached to motor vehicles such as trucks, railcars, barges, or ships;

(2) Pressure vessels designed to operate in excess of 204.9 kilopascals and without emissions to the atmosphere;

(3) Vessels storing volatile liquids that contain HAP only as impurities;

(4) Wastewater storage tanks; and

(5) Process vessels.

Wet particulate control device means an air pollution control device that uses water or other liquid to contact and remove particulate matter in the exhaust stream.

[74 FR 63525, Dec. 3, 2009, as amended at 75 FR 31320, June 3, 2010]

§§63.11608-63.11618 [Reserved]

Table 1 to Subpart CCCCCC of Part 63—Applicability of General Provisions to Paints and Allied Products Manufacturing Area Sources

As required in §63.11599, you must meet each requirement in the following table that applies to you. Part 63 General Provisions that apply for Paints and Allied Products Manufacturing Area Sources:

Citation	Subject	Applies to subpart CCCCCC
63.1	Applicability	Yes.
63.2	Definitions	Yes.
63.3	Units and abbreviations	Yes.
63.4	Prohibited activities	Yes.
63.5	Preconstruction review and notification requirements	No.
63.6(a), (b)(1)-(b)(5), (c), (e)(1), (f)(2), (f)(3), (g), (i), (j)	Compliance with standards and maintenance requirements	Yes.
63.7(a), (e), and (f)	Performance testing requirements	Yes.
63.8	Monitoring requirements	No.
63.9(a)-(d), (i), and (j)	Notification Requirements	Yes.
63.10(a), (b)(1)	Recordkeeping and Reporting	Yes.
63.10(d)(1)	Recordkeeping and Reporting	Yes.
63.11	Control device and work practice requirements	No.
63.12	State authority and delegations	Yes.
63.13	Addresses of state air pollution control agencies and EPA regional offices	Yes.
63.14	Incorporation by reference	No.
63.15	Availability of information and confidentiality	Yes.
63.16	Performance track provisions	No.

Indiana Department of Environmental Management
Office of Air Quality

Technical Support Document (TSD) for a Federally Enforceable State
Operating Permit (FESOP) Renewal with New Source Review (NSR)

Source Description and Location

Source Name: PPG Brazil Powder
Source Location: 2831 E Industrial Park Dr., Brazil, IN 47834
County: Clay
SIC Code: 2851 (Paints, Varnishes, Lacquers, Enamels, and Allied Products)
Permit Renewal No.: F 021-47529-00062
Permit Reviewer: Christopher Chin

On February 13, 2024, PPG Brazil Powder submitted an application to the Office of Air Quality (OAQ) requesting to renew its operating permit. OAQ has reviewed the operating permit renewal application from PPG Brazil Powder relating to the operation of an existing stationary powder coating manufacturing source. PPG Brazil Powder was issued its first FESOP Renewal (F 021-34170-00062) on November 13, 2014.

Additionally, PPG Brazil Power requested the addition of one (1) abrasive blast cabinet, one (1) product blender, one (1) metallic powder unloading process, one (1) central vacuum system, four (4) natural gas air handling units, and two (2) 2 electrostatic powder coating booths.

Existing Approvals

The source was issued FESOP Renewal No. 021-34170-00062 on November 13, 2014. The source has since received the following approvals:

- (a) FESOP Administrative Amendment No. 021-37315-00062, issued on July 18, 2016;
- (b) FESOP Significant Permit Revision No. 021-38567-00062, issued on December 15, 2017;
- (c) FESOP Significant Permit Revision No. 021-39741-00062, issued on July 5, 2018;
- (d) FESOP Review Request No. 021-42679-00062, issued on April 16, 2020;
- (e) FESOP Significant Permit Revision No. 021-44015-00062, issued on July 14, 2021;
- (f) FESOP Administrative Amendment No. 021-47109-00062, issued on November 6, 2023;

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

Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units:

- (a) One (1) manual batch mixing operations, identified as MBM, constructed in 2002, with a maximum capacity of 4,100 pounds per hour, with particulate emissions from filling operations controlled by baghouse, BHN, and exhausting inside.

Under 40 CFR 63, Subpart CCCCCC, this unit is considered an affected facility.

- (b) Eight (8) batch process powder coating manufacturing lines, each consisting of:
- (1) One (1) mixer including batch weighing, charging, manual filling, and closed lid mixing, with particulate emissions from filling are controlled by a baghouse;
 - (2) One (1) mixer hopper;
 - (3) One (1) feeder auger, with particulate emissions controlled by a baghouse;
 - (4) One (1) extruder;
 - (5) One (1) chiller conveyor;
 - (6) One (1) chipper;
 - (7) One (1) mill including an internal sifting system and a product control cyclone, with particulate emissions controlled by a baghouse;

ID	Batch Size	Maximum Capacity (lbs of powder coating/hr)	Limiting Process	Mixer and Feeder Auger Baghouse ID	Mixer and Feeder Auger Exhaust	Mill Baghouse ID	Mill Exhaust	Construction Date
SB-1	Small	240	Airflow	BHN	Inside	BH1	Stack 1	2002
SB-2	Small	240	Airflow	BHN	Inside	BH2	Stack 2	2002
SB-3	Small	520	Mill	BHN	Inside	BH3	Stack 3	2011
Line 1	Medium	2,100	Extruder	BHN	Inside	BH4	Stack 4	2002
Line 2	Medium	1,800	Mill	BHN	Inside	BH5	Stack 5	2011
Line 3	Large	4,100	Mill	BHN	Inside	BH6	Stack 6	2011
Line 4	Medium	3,000	Airflow	BHN	Inside	BH7	Stack 7	2002
Line 5	Large	2,100	Extruder	BHN	Inside	BH8	Stack 8	2002

Under 40 CFR 63, Subpart CCCCCC, these units are considered affected facilities.

- (c) One (1) powder coating blender, identified as PCB, constructed in 2002, with a maximum capacity of 750 pounds of powder coating per hour, with particulate emissions controlled by baghouse, BHN, and exhausting inside.

Under 40 CFR 63, Subpart CCCCCC, this unit is considered an affected facility.

- (d) One (1) metallic bonding operation, identified as Bonding Line 1, constructed in 2024, with a maximum capacity of 3,354 pounds of powder per hour, equipped with material recovery cyclones for DC-713 and DC-715, using baghouse DC-713 and wet scrubber DC-714 for particulate control, and exhausting inside, consisting of:
- (1) Coating powder unloading operation, dumping bags of coating powders into enclosed transferring containers, with particulate controlled by baghouse DC-713.
 - (2) Metallic powder unloading operation, dumping bags of metallic powders into the weigh station and enclosed transferring containers, with particulate controlled by wet scrubber DC-714.
 - (3) Enclosed conveying of coating and metallic powders to hopper and enclosed bonding mixer.
 - (4) Loading of mixed powders into an enclosed cooler and from the cooler to enclosed transferring containers, with particulate controlled by baghouse DC-713.
 - (5) Loading of mixed powders into a sieve, with particulate controlled by baghouse DC-713.
 - (6) Packaging of mixed powders, with particulate controlled by baghouse DC-713.

Under 40 CFR 63, Subpart CCCCCC, this unit is considered an affected facility.

- (e) One (1) metallic bonding operation, identified as Bonding Line 2, constructed in 2024, with a maximum capacity of 1,677 pounds of powder per hour, equipped with material recovery cyclones for DC-713 and DC-715, using baghouse DC-713 and wet scrubber DC-715 for particulate control, and exhausting inside, consisting of:
 - (1) Coating powder unloading operation, dumping bags of coating powders into enclosed transferring containers, with particulate controlled by baghouse DC-713.
 - (2) Metallic powder unloading operation, dumping bags of metallic powders into the weigh station and enclosed transferring containers, with particulate controlled by wet scrubber DC-715.
 - (3) Enclosed conveying of coating and metallic powders to hopper and enclosed bonding mixer.
 - (4) Loading of mixed powders into an enclosed cooler and from the cooler to enclosed transferring containers, with particulate controlled by baghouse DC-713.
 - (5) Loading of mixed powders into a sieve, with particulate controlled by baghouse DC-713.
 - (6) Packaging of mixed powders, with particulate controlled by baghouse DC-713.

Under 40 CFR 63, Subpart CCCCCC, this unit is considered an affected facility.

Insignificant Activities

The source also consists of the following insignificant activities:

- (a) One (1) solvent clean-up operation constructed in 2002, using a maximum of 55 gallons per week of 60% MEK, 40% Acetone solution.
- (b) Thirteen (13) indirect natural gas-fired air handling units, identified as units AHU1 through AHU13, constructed in 2002, with a total maximum heat input capacity of 6.63 MMBtu/hr.
- (c) Seven (7) natural gas-fired ovens, identified as ovens H1 through H7, constructed in 2002, each with a maximum heat input capacity of 0.05 MMBtu/hr.
- (d) One (1) natural gas-fired oven, identified as H8, permitted in 2023, with a maximum heat input capacity of 0.10 MMBtu per hour, using no controls, and exhausting outdoors.
- (e) Paved roads.
- (f) One (1) Research and Development Laboratory.
- (g) One (1) Quality Assurance Laboratory.
- (h) Quality control and technical lab activities, including:
 - (1) Vented lab hoods, constructed in 2003;
 - (2) Sample ovens, with a total heat input capacity of 0.05 MMBtu per hour, constructed in 2003;
 - (3) Fourteen (14) electrostatic powder coating booths used to coat sample pieces, eleven (11) constructed in 2003, two (2) constructed in 2007, and one (1) constructed in 2018.
- (i) A maintenance area for welding and hot work utilizing handheld tools, exhausted to maintenance ventilation equipped with dry filters, and exhausting to Stack M1.

- (j) One (1) Electric Bake oven for the cleaning of powder screws, approved in 2021 for construction, with a maximum capacity of twenty (20) powder screws per week, using maintenance ventilation equipped with dry filters, and exhausting to Stack M1.

**Emission Units and Pollution Control Equipment
 Constructed Under the Provisions of 326 IAC 2-1.1-3 (Exemptions)**

As part of this permitting action, the source requested to add the following existing emission unit(s) constructed under the provisions of 326 IAC 2-1.1-3 (Exemptions).

- (h) Quality control and technical lab activities, including:
 - (1) Vented lab hoods, constructed in 2003;
 - (2) Sample ovens, with a total heat input capacity of 0.05 MMBtu per hour, constructed in 2003;
 - (3) **Sixteen (16)** ~~Fourteen (14)~~ electrostatic powder coating booths used to coat **metal** sample pieces, eleven (11) constructed in 2003, two (2) constructed in 2007, and one (1) constructed in 2018, **and two (2) constructed in 2023.**

- (k) **One (1) central vacuum system used solely for housekeeping on a needs basis and exhausting outside. The central vacuum system is not for complying with any regulatory requirements of the permit.**

The total potential to emit of the emission unit is less than levels specified at 326 IAC 2-1.1-3(e)(1)(A) through (G) and the addition of the emission unit(s) did not require the source to transition to a higher operation permit level. Therefore, pursuant to 326 IAC 2-1.1-3(e), the permit revision requirements under 326 IAC 2-8-11.1, including the requirement to submit an application, do not apply to the emission unit(s).

Enforcement Issue

There are no enforcement actions pending.

Emission Calculations

See Appendix A of this Technical Support Document for detailed emission calculations.

County Attainment Status

The source is located in Clay 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.

Pollutant	Designation
SO ₂	Unclassifiable or attainment effective April 9, 2018, for the 2010 primary 1-hour SO ₂ standard. Better than national secondary standards effective March 3, 1978.
CO	Unclassifiable or attainment effective November 15, 1990.
O ₃	Unclassifiable or attainment effective January 16, 2018, for the 2015 8-hour ozone standard.
PM _{2.5}	Unclassifiable or attainment effective April 15, 2015, for the 2012 annual PM _{2.5} standard.
PM _{2.5}	Unclassifiable or attainment effective December 13, 2009, for the 2006 24-hour PM _{2.5} standard.
PM ₁₀	Unclassifiable effective November 15, 1990.

Pollutant	Designation
NO ₂	Unclassifiable or attainment effective January 29, 2012, for the 2010 NO ₂ 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_x) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NO_x emissions are considered when evaluating the rule applicability relating to ozone. Clay County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO_x emissions were reviewed pursuant to the requirements of Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (b) **PM_{2.5}**
Clay County has been classified as attainment for PM_{2.5}. Therefore, direct PM_{2.5}, SO₂, and NO_x emissions were reviewed pursuant to the requirements of Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (c) **Other Criteria Pollutants**
Clay 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) 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.

Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions of the source.

	Unrestricted Potential Emissions (ton/year)								
	PM ¹	PM ₁₀ ¹	PM _{2.5} ^{1,2}	SO ₂	NO _x	VOC	CO	Single HAP ³	Total HAPs
Total PTE of Entire Source Excluding Fugitive Emissions*	1919.69	1917.11	1917.11	0.03	4.78	6.02	4.02	190.63	572.01
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	--	--
¹ Under the Part 70 Permit program (40 CFR 70), PM ₁₀ and PM _{2.5} , not particulate matter (PM), are each considered as a "regulated air pollutant." ² PM _{2.5} listed is direct PM _{2.5} . ³ Single highest source-wide HAP (Antimony, Chromium, or Nickel) *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 PM10 and PM2.5 is equal to or greater than 100 tons per year. However, the Permittee has agreed to limit the source's PM10 and PM2.5 emissions to less than Title V major source thresholds. Therefore, the source will be issued a FESOP Renewal.
- (b) The potential to emit (as defined in 326 IAC 2-7-1(30)) of all other regulated air pollutants are less than 100 tons per year.
- (c) 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. However, the source will be issued FESOP Renewal 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) subject to the provisions of 326 IAC 2-7.

Description of Proposed Revision at an Existing Source

The Office of Air Quality (OAQ) has reviewed an application, submitted by PPG Brazil Powder on February 13, 2024, relating to the renewal of its FESOP and the addition of one (1) abrasive blast cabinet, one (1) product blender, one (1) metallic powder unloading process, and four (4) natural gas air handling units.

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

- (a) One (1) maintenance abrasive blast cabinet utilizing walnut shells, approved in 2024 for construction, with a flow rate of 102.9 pounds per hour, using no control, and exhausting indoors.
- (b) One (1) Mixaco product blender, identified as Mixaco, approved in 2024 for construction, with a maximum capacity of 7,500 pounds of powder per hour, using baghouse DC-713 as control, and exhausting indoors.
- (c) One (1) Supersac metallic powder unloading process, identified as Supersac, approved in 2024 for construction, with a maximum capacity of 1,600 pounds per hour, using baghouse DC-713 as control, and exhausting indoors.

- (d) Four (4) indirect natural gas-fired air handling units, identified as units AHU14 through AHU17, approved in 2024 for construction, each with a maximum heat input capacity of 1 MMBtu per hour.

Permit Level Determination – FESOP Significant Permit Revision

Pursuant to 326 IAC 2-1.1-1(12), Potential to Emit is defined as “the maximum capacity of a stationary source or emission unit to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA, IDEM, or the appropriate local air pollution control agency.”

The following table is used to determine the appropriate permit level under 326 IAC 2-8-11.1 (Permit Revisions). This table reflects the PTE before controls of the proposed revision. 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.

Process / Emission Unit	PTE Before Controls of the New Emission Units (ton/year)								
	PM	PM ₁₀	PM _{2.5} ¹	SO ₂	NO _x	VOC	CO	Single HAP ²	Total HAPs
Abrasive Blaster	9.50	6.65	6.65	-	-	-	-	-	-
Mixaco Blender	328.50	328.50	328.50	-	-	-	-	39.86	119.57
Supersac Metallic Powder Unloading	70.08	70.08	70.08	-	-	-	-		
Four (4) air handling	0.03	0.13	0.13	0.01	1.72	0.09	1.44	0.03	0.03
Total PTE Before Controls of the New Emission Units:	408.12	405.36	405.36	0.01	1.72	0.09	1.44	39.86	119.61

¹PM_{2.5} listed is direct PM_{2.5}.

²Single highest HAP. (Antimony, Chromium, and Nickel)

Appendix A of this TSD reflects the detailed potential emissions of the proposed revision.

Pursuant to 326 IAC 2-8-11.1(f)(1)(E), this FESOP is being revised through a FESOP Significant Permit Revision because the proposed revision is not an Administrative Amendment or Minor Permit revision and the proposed revision involves the construction of new emission units with potential to emit equal to or greater than twenty-five (25) tons per year of the following pollutants:

- (i) PM, PM₁₀, or direct PM_{2.5}.

Pursuant to 326 IAC 2-8-11.1(f), this FESOP is being revised through a FESOP Significant Permit Revision because the proposed revision is not an Administrative Amendment or Minor Permit revision and the proposed revision involves increase the limits of PSD avoidance, FESOP and HAP limits.

Potential to Emit After Issuance

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

	Potential To Emit of the Entire Source After Issuance of Renewal (tons/year)								
	PM ¹	PM ₁₀ ¹	PM _{2.5} ^{1,2}	SO ₂	NO _x	VOC	CO	Single HAP ³	Total HAPs
Total PTE of Entire Source Excluding Fugitive Emissions*	90.22	87.64	87.64	0.03	4.78	6.02	4.02	7.68	23.22
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	NA	NA

¹Under the Part 70 Permit program (40 CFR 70), PM₁₀ and PM_{2.5}, not particulate matter (PM), are each considered as a "regulated air pollutant."
²PM_{2.5} listed is direct PM_{2.5}.
³Single highest source-wide HAP. (Antimony, Chromium, and Nickel)
 *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 limit(s) in order to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) 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 2-8 (FESOP), 326 IAC 2-2 (PSD), and 326 IAC 2-3 (Emission Offset), and 326 IAC 20 (Hazardous Air Pollutants) for more information regarding the limit(s).

- (a) This existing source is not a major stationary source, under PSD (326 IAC 2-2), because no PSD regulated pollutant is emitted at a rate of two hundred fifty (250) tons per year or more and it is not one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(ff)(1).
- (b) This source is not a major source of HAP, as defined in 40 CFR 63.2, because HAP emissions are less than ten (10) tons per year for any single HAP and less than twenty-five (25) tons per year of a combination of HAPs. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA).

Federal Rule Applicability

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 Surface Coating of Metal Furniture 40 CFR 60, Subpart EE and 326 IAC 12, are not included in the permit for the powder coating booths, because these electrostatic powder coating booths coat metal samples, not metal furniture.
- (b) The requirements of the New Source Performance Standard for Industrial Surface Coating: Large Appliances 40 CFR 60, Subpart SS and 326 IAC 12, are not included in the permit for powder coating booths, because booths are not part of a large appliance surface coating operation.
- (c) The requirements of the New Source Performance Standard for Industrial Surface Coating: Surface Coating of Plastic Parts for Business Machines 40 CFR 60, Subpart TTT and 326 IAC 12, are not included in the permit for the powder coating booths, because the booths are not used to spray plastic parts used in manufacture of business machines.

- (d) There are no 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) This source is subject to the National Emission Standards for Hazardous Air Pollutants for Area Sources: Paints and Allied Products Manufacturing, 40 CFR 63, Subpart CCCCCC, because the source is an existing paint manufacturer that is an area source of hazardous air pollutant (HAP) emissions and processes and uses, materials containing HAP including benzene, methylene chloride, or compounds of cadmium, chromium, lead, and/or nickel, in amounts greater than or equal to 0.1 percent by weight.

The units subject to this rule include the following:

- One (1) manual batch mixing operations, identified as MBM, constructed in 2002, with a maximum capacity of 4,100 pounds per hour, with particulate emissions from filling operations controlled by baghouse, BHN, and exhausting inside.
- Eight (8) batch process powder coating manufacturing lines, each consisting of:
 - (1) One (1) mixer including batch weighing, charging, manual filling, and closed lid mixing, with particulate emissions from filling are controlled by a baghouse;
 - (2) One (1) mixer hopper;
 - (3) One (1) feeder auger, with particulate emissions controlled by a baghouse;
 - (4) One (1) extruder;
 - (5) One (1) chiller conveyor;
 - (6) One (1) chipper;
 - (7) One (1) mill including an internal sifting system and a product control cyclone, with particulate emissions controlled by a baghouse;

ID	Batch Size	Maximum Capacity (lbs of powder coating/hr)	Limiting Process	Mixer and Feeder Auger Baghouse ID	Mixer and Feeder Auger Exhaust	Mill Baghouse ID	Mill Exhaust	Construction Date
SB-1	Small	240	Airflow	BHN	Inside	BH1	Stack 1	2002
SB-2	Small	240	Airflow	BHN	Inside	BH2	Stack 2	2002
SB-3	Small	520	Mill	BHN	Inside	BH3	Stack 3	2011
Line 1	Medium	2,100	Extruder	BHN	Inside	BH4	Stack 4	2002
Line 2	Medium	1,800	Mill	BHN	Inside	BH5	Stack 5	2011
Line 3	Large	4,100	Mill	BHN	Inside	BH6	Stack 6	2011
Line 4	Medium	3,000	Airflow	BHN	Inside	BH7	Stack 7	2002
Line 5	Large	2,100	Extruder	BHN	Inside	BH8	Stack 8	2002

- One (1) powder coating blender, identified as PCB, constructed in 2002, with a maximum capacity of 750 pounds of powder coating per hour, with particulate emissions controlled by baghouse, BHN, and exhausting inside.
- One (1) metallic bonding operation, identified as Bonding Line 1, constructed in 2024, with a maximum capacity of 3,354 pounds of powder per hour, using baghouse DC-713 and wet scrubber DC-714 for particulate control, and exhausting inside, consisting of:
 - (1) Coating powder unloading operation, dumping bags of coating powders into enclosed transferring containers, with particulate controlled by baghouse DC-713.

- (2) Metallic powder unloading operation, dumping bags of metallic powders into the weigh station and enclosed transferring containers, with particulate controlled by wet scrubber DC-714.
 - (3) Enclosed conveying of coating and metallic powders to hopper and enclosed bonding mixer.
 - (4) Loading of mixed powders into an enclosed cooler and from the cooler to enclosed transferring containers, with particulate controlled by baghouse DC-713.
 - (5) Loading of mixed powders into a sieve, with particulate controlled by baghouse DC-713.
 - (6) Packaging of mixed powders, with particulate controlled by baghouse DC-713.
- One (1) metallic bonding operation, identified as Bonding Line 2, constructed in 2024, with a maximum capacity of 1,677 pounds of powder per hour, using baghouse DC-713 and wet scrubber DC-715 for particulate control, and exhausting inside, consisting of:
 - (1) Coating powder unloading operation, dumping bags of coating powders into enclosed transferring containers, with particulate controlled by baghouse DC-713.
 - (2) Metallic powder unloading operation, dumping bags of metallic powders into the weigh station and enclosed transferring containers, with particulate controlled by wet scrubber DC-715.
 - (3) Enclosed conveying of coating and metallic powders to hopper and enclosed bonding mixer.
 - (4) Loading of mixed powders into an enclosed cooler and from the cooler to enclosed transferring containers, with particulate controlled by baghouse DC-713.
 - (5) Loading of mixed powders into a sieve, with particulate controlled by baghouse DC-713.
 - (6) Packaging of mixed powders, with particulate controlled by baghouse DC-713.
 - One (1) Mixaco product blender, identified as Mixaco, permitted in 2024 for construction, with a maximum capacity of 7,500 pounds of powder per hour, using baghouse DC-713 as control, and exhausting indoors.

These units are subject to the following portions of Subpart CCCCCC.

- (1) 40 CFR 63.11599(a), (b)
- (2) 40 CFR 63.11600(b)
- (3) 40 CFR 63.11601
- (4) 40 CFR 63.11602
- (5) 40 CFR 63.11603
- (6) 40 CFR 63.11605
- (7) 40 CFR 63.11606
- (8) 40 CFR 63.11607
- (9) Table 1

The requirements of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated as 326 IAC 20-1, apply to the above units except as otherwise specified in 40 CFR 63, Subpart CCCCCC.

- (b) The requirements of the National Emission Standards for Hazardous Air Pollutants for Chemical Manufacturing Area Sources, 40 CFR 63.11494, Subpart VVVVVV, are not included for the permit for this source, because this source is subject to the requirements of 40 CFR 63, Subpart CCCCCC.
- (c) The requirements of the National Emission Standards for Hazardous Air Pollutants for Area Sources: Chemical Preparations Industry, 40 CFR 63.11579, SubpartBBBBBB, are not included for the permit for this source, because this source is subject to the requirements of 40 CFR 63, Subpart CCCCCC.

- (d) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Surface Coating of Miscellaneous Metal parts and Products, 40 CFR 63, Subpart MMMM, are not included in the permit because the source is not a major source of HAP emissions.
- (e) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources, 40 CFR 63, Subpart HHHHHH are not included in the permit for this source, since the source does not have paint stripping operations that involves the use of chemical strippers that contain methylene chloride (MeCl), does not perform autobody refinishing operations that encompass motor vehicle and mobile equipment spray-applied surface coating operations, and does not perform spray application of coatings containing compounds of chromium (Cr), lead (Pb), manganese (Mn), nickel (Ni), or cadmium (Cd), to any part or product made of metal or plastic, or combinations of metal and plastic that are not motor vehicles or mobile equipment.

Compliance Assurance Monitoring (CAM):

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

State Rule Applicability - Entire Source

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

326 IAC 1-6-3 (Preventive Maintenance Plan)

The source is subject to 326 IAC 1-6-3.

326 IAC 1-5-2 (Emergency Reduction Plans)

The source is subject to 326 IAC 1-5-2.

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

PSD and Emission Offset applicability is discussed under the Potential to Emit After Issuance section of this document.

PSD Minor Source Limits

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

Emission Units	PM (lbs/hr)
Mixers and Extrusion Operations at SB-1 through SB-3, Line 1 through Line 5, MBM, and PCB	5.83 (total)
SB-1 mill	0.60
SB-2 mill	0.60
SB-3 mill	0.60
Line 1 mill	0.60
Line 2 mill	0.60
Line 3 mill	0.60
Line 4 mill	0.60
Line 5 mill	0.60
DC-713: Bonding Lines 1 and 2	6.79
DC-713: Mixaco and Supersac	

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

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

The operation of this source will emit equal to or greater than ten (10) tons per year for a single HAP and equal to or greater than twenty-five (25) tons per year for a combination of HAPs and this source is not specifically regulated under or exempted from regulation under a NESHAP that was issued pursuant to Section 112(d), 112(h), or 112(j) of the Clean Air Act (CAA) and incorporated under 40 CFR 63.

Therefore, 326 IAC 2-4.1 applies. However, the source shall limit the potential to emit HAPs to less than ten (10) tons per year for any single HAP and less than twenty-five (25) tons per year of a combination of HAPs. Therefore, the proposed modification is not subject to the requirements of 326 IAC 2-4.4.1. See Potential to Emit After Issuance Section above.

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 Potential to Emit After Issuance section of this document.

FESOP PM₁₀ and PM_{2.5} Limit(s)

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

Emission Units	PM10 (lbs/hr)	PM2.5 (lbs/hr)
Mixers and Extrusion Operations at SB-1 through SB-3, Line 1 through Line 5, MBM, PCB	5.83 (total)	5.83 (total)
SB-1 mill	0.60	0.60
SB-2 mill	0.60	0.60
SB-3 mill	0.60	0.60
Line 1 mill	0.60	0.60
Line 2 mill	0.60	0.60
Line 3 mill	0.60	0.60
Line 4 mill	0.60	0.60
Line 5 mill	0.60	0.60
DC-713: Bonding Lines 1 and 2	6.79	6.79
DC-713: Mixaco and Supersac		

Compliance with these limits, combined with the potential to emit PM₁₀ and PM_{2.5} from all other emission units at this source, shall limit the source-wide total potential to emit of PM₁₀ and PM_{2.5} to less than 100 tons per twelve (12) consecutive month period, each, and shall render the requirements of 326 IAC 2-7 (Part 70 Permits) not applicable.

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:

Emission Units	Combined HAPs (lbs/hr)	Single HAP (lbs/hr)
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Mixers and Extrusion Operations at SB-1 through SB-3, Line 1 through Line 5, MBM, PCB	1.75 (total)	0.58 (total)
SB-1 mill	0.18	0.06
SB-2 mill	0.18	0.06
SB-3 mill	0.18	0.06
Line 1 mill	0.18	0.06
Line 2 mill	0.18	0.06
Line 3 mill	0.18	0.06
Line 4 mill	0.18	0.06
Line 5 mill	0.18	0.06
DC-713: Bonding Lines 1 and 2	2.04	0.68
DC-713: Mixaco and Supersac		

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)

The source is subject to the requirements of 326 IAC 6-4, because the paved roads have the potential to emit fugitive particulate emissions. 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 Clay 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 Clay County) is not subject to the requirements of 326 IAC 6.8 because it is not located in Lake County.

State Rule Applicability – Individual Facilities

State rule applicability has been reviewed as follows:

Manual Batch Mixing Operation (MBM)

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 Manual Batch Mixing Operation, identified as MBM, since it is a manufacturing process not exempted from this rule under 326 IAC 6-3-1(b) and is 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 Manual Batch Mixing Process shall not exceed 6.63 pounds per hour when operating at a process weight rate of 2.05 tons per hour. 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:

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

Summary of Process Weight Rate Limits				
Process / Emission Unit	P (lbs/hr)	P (ton/hr)	E (lb/hr)	Uncontrolled PTE (lb/hr)
MBM	4,100	2.05	6.63	5.83

Based on calculations, the baghouse, BHN, is not needed to comply with this limit.

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

Even though, this unit 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.

Eight (8) Batch Process Powder Coating lines

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 units listed below, since it is a manufacturing process not exempted from this rule under 326 IAC 6-3-1(b) and is 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).

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:

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

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes) the particulate from the processes listed in the table below shall be limited by the following:

Emission Unit	Control Device	Process Weight Rate (tons/hr)	Allowable PM Limit (lbs/hr)
SB-1	BH1	0.12	0.99
SB-2	BH2	0.12	0.99
SB-3	BH3	0.26	1.66
LINE 1	BH4	1.05	4.24
LINE 2	BH5	0.90	3.82

LINE 3	BH6	2.05	6.63
LINE 4	BH7	1.50	5.38
LINE 5	BH8	1.05	4.24

The associated baghouse shall be in operation and controlling PM emissions at all times when any unit of the powder coating manufacturing operation is in operation.

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

Even though, this chiller conveyor 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.

Powder Coating Blender (PCB)

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 units listed below, since it is a manufacturing process not exempted from this rule under 326 IAC 6-3-1(b) and is 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).

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:

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

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes) the particulate from the processes listed in the table below shall be limited by the following:

Emission Unit	Control Device	Process Weight Rate (tons/hr)	Allowable PM Limit (lbs/hr)
PCB	BHN	0.38	2.13

The Baghouse BHN shall be in operation at all times Powder Coating Blender is in operation, in order to comply with this limit.

Clean-up Operation

326 IAC 8-3 (Organic Solvent Degreasing Operations)

The requirements of 326 IAC 8-3 do not apply to the clean-up operation because it is not a cold cleaner degreaser (326 IAC 1-2-18.5), an open top vapor degreaser (326 IAC 1-2-49.5), or a conveyORIZED degreaser (326 IAC 1-2-21.5) as defined in 326 IAC 1-2 (General Provisions – Definitions). The equipment is cleaned in place, not brought to a fixed location or dip tank for cleaning purpose, therefore these solvent cleaning operations are not considered cold cleaner degreasers.

326 IAC 8-1-6 (General VOC Requirements)

The requirements of 326 IAC 8-1-6 do not apply because the potential to emit VOC from the clean-up operation is less than 25 tons per year.

326 IAC 7-1.1 Sulfur Dioxide Emission Limitations

This emission unit is not subject to 326 IAC 326 IAC 7-1.1 because its SO₂ PTE is less than 25 tons/year or 10 pounds/hour.

Seventeen (17) NG air handler

326 IAC 6-2-4 (Particulate Matter 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.

Indirect Heating Units Which Began Operation After September 21, 1983						
Facility	Construction Date	Operating Capacity (MMBtu/hr) (each)	Q (MMBtu/hr)	Calculated Pt (lb/MMBtu)	Particulate Limitation, (Pt) (lb/MMBtu)	PM PTE based on AP-42 (lb/MMBtu)
AHU 1-3	2002	0.39	6.63	0.67	0.60	0.002
AHU 4-7		1.00				
AHU 8		0.39				
AHU 9-10		0.27				
AHU 11-13		0.17				
AHU 14-17	2024	1.00	10.63	0.59	0.59	0.002
Where: Q = Includes the capacity (MMBtu/hr) of the new unit(s) and the capacities for those unit(s) which were in operation at the source at the time the new unit(s) was constructed.						

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

Pursuant to 326 IAC 6-3-1(b)1, natural gas air handlers are not subject to the requirements of 326 IAC 6-3, since combustion for indirect heating units are exempt.

326 IAC 7-1.1 Sulfur Dioxide Emission Limitations

The natural gas air handlers are not subject to 326 IAC 326 IAC 7-1.1 because each has a potential to emit (or limited potential to emit) sulfur dioxide (SO2) 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, each unit was constructed after January 1, 1980, these units are not subject to the requirements of 326 IAC 8-1-6 because the unlimited VOC potential emissions are less than twenty-five (25) tons per year.

Electric Bake Oven

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

The bake oven is not subject to the requirements of 326 IAC 6-2, since it does not use combustion of fuel for indirect heating. The unit is electric.

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

Pursuant to 326 IAC 6-3-1(b)(14), the Bake Oven is not subject to the requirements of 326 IAC 6-3, since it has potential particulate emissions less than 0.551 lb/hr and the provisions of 326 IAC 6-3 are not applicable to manufacturing processes with potential emissions less than 0.551 pound per hour.

Bonding Lines 1 and 2

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 Bonding Lines 1 and 2, since each is a manufacturing process not exempted from this rule under 326 IAC 6-3-1(b) and is 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 units below shall not exceed the applicable limit in pounds per hour when operating at the corresponding process weight rate in tons per hour. 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)	Uncontrolled PM Emissions (lb/hr)
Bonding Line 1	1.68	5.80	33.54
Bonding Line 2	0.84	3.64	16.77

The Baghouse DC-713 shall be in operation at all times Bonding Line 1 and Bonding Line 2 are in operation, in order to comply with this limit.

Mixaco and Supersac

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 Bonding Lines 1 and 2, since each is a manufacturing process not exempted from this rule under 326 IAC 6-3-1(b) and is 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 units below shall not exceed the applicable limit in pounds per hour when operating at the corresponding process weight rate in tons per hour. 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:

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

P = process weight rate in tons per hour

Summary of Process Weight Rate Limits			
Process / Emission Unit	P (ton/hr)	E (lb/hr)	Uncontrolled PM Emissions (lb/hr)
Mixaco and Supersac	3.75	9.94	75.00

The Baghouse DC-713 shall be in operation at all times Mixaco and Supersac are in operation, in order to comply with this limit.

Nine (9) NG Ovens (H1-H8, Sample Ovens)

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

Pursuant to 326 IAC 6-2-1, the natural gas-fired ovens are not subject to the provision of 326 IAC 6-2-1, since the ovens are not a source of indirect heating.

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

Pursuant to 326 IAC 6-3-1.5, the natural gas-fired ovens are not subject to the requirements of 326 IAC 6-3, since burning gaseous fuels is not considered part of the process weight rate.

326 IAC 7-1.1 Sulfur Dioxide Emission Limitations

This emission units are not subject to 326 IAC 326 IAC 7-1.1 because these units have a potential to emit (or limited potential to emit) sulfur dioxide (SO₂) 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, these units were constructed after January 1, 1980, they are 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 ovens, 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 ovens, since these units are not blast furnace gas-fired boiler, a Portland cement kiln, or a facility specifically listed under 326 IAC 10-3-1(a)(2).

Maintenance Abrasive Blast Cabinet

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

The maintenance abrasive blast cabinet is not subject to 326 IAC 6-3-2 because the sand blasting cabinets are used for maintenance purposes and not for manufacturing production. Therefore, the maintenance abrasive blast cabinet is not applicable to 326 IAC 6-3-2.

Laboratories

326 8-1-6 New facilities; general reduction requirements

Even though the laboratories were constructed after January 1, 1980, they are not subject to the requirements of 326 IAC 8-1-6 because their unlimited VOC potential emissions are less than twenty-five (25) tons per year.

Compliance Determination and Monitoring Requirements

Permits issued under 326 IAC 2-8 are required to assure that sources can demonstrate compliance with all applicable state and federal rules on a continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a continuous demonstration. When this occurs, IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-8-4. As a result, Compliance Determination Requirements are included in the permit. The Compliance Determination Requirements in Section D of the permit are those conditions that are found directly within state and federal rules and the violation of which serves as grounds for enforcement action.

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

(a) The Compliance Determination Requirements applicable to this source are as follows:

Testing Requirements:

Summary of Testing Requirements					
Emission Unit	Control Device	Timeframe for Testing or Date of Initial Valid Demonstration)	Pollutant/Parameter	Frequency of Testing	Authority
Line 3	baghouse (BHN)	Not later than 180 days after startup	PM, PM10 and PM2.5 ⁽¹⁾	every 5 years	326 IAC 2-2 326 IAC 6-3-2
	baghouse (BH6)			every 5 years ⁽²⁾	326 IAC 2-2 326 IAC 6-3-2
Bonding Line 1 Bonding Line 2 Mixaco Supersac	Baghouse DC-713		PM ⁽³⁾ , PM10, PM2.5	every 5 years	326 IAC 2-2 326 IAC 6-3-2

⁽¹⁾ The maximum weight percent of combined HAPs and single HAP in all raw material used at the source are 30% and 10%, respectively for combined HAPs and single HAP. All these HAPs are metallic HAPS and these HAPs emissions are particulate emissions. Compliance with PM limits will ensure the compliance with combined HAPs and single HAP limits. Therefore, HAPs testing requirements are not included in the permit.

⁽²⁾ The repeat testing shall be performed on one of the baghouses from BH5, BH6 and BH8 such that the time period for the testing these baghouses shall not exceed 15 years. The baghouses BH5, BH6 and BH8 are chosen for the testing among the baghouses BH1-BH8 because these baghouses have higher air flow rates. The results of the testing performed for the baghouses BH5, BH6 and BH8 are representative for the baghouses BH1, BH2, BH3, BH4 and BH7, therefore, testing for the baghouses BH1, BH2, BH3, BH4 and BH7 are not required.

⁽³⁾ The maximum weight percent of combined HAPs and single HAP in all raw material used at the source are 30% and 10%, respectively. All HAPs are metallic HAPS and are particulate emissions. Compliance with PM limits will ensure the compliance with combined HAPs and single HAP limits. Therefore, HAPs testing requirements are not included in the permit.

(b) The Compliance Monitoring Requirements applicable to this source are as follows:

Control Device	Type of Parametric Monitoring	Frequency	Range or Specification
Baghouses: BH-1 through BH-8, DC-713	Pressure Drop	Daily	Within normal range of 1.0 to 6.0 inches of water, unless a different upper or lower value is established in the most recent compliant stack test*

Control Device	Type of Parametric Monitoring	Frequency	Range or Specification
Baghouses: BHN	Baghouse Inspections	Semi-annual	Operated and maintained accordance with the manufacturer's specifications

These monitoring conditions are necessary because the Baghouses BHN, BH-1 through BH-8, DC-713 for the powder coating manufacturing lines and operations, identified as SB-1 through SB-3, Line 1 through Line 5, the bonding process, Bonding Lines 1, and Bonding Line 2, must operate properly to assure compliance with 326 IAC 2-8 (FESOP), 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)), 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP)), and 326 IAC 6-3-2 (Particulate Emissions Limitations for Manufacturing Processes).

Proposed Changes

As part of this permit approval, the permit may contain new or different permit conditions and some conditions from previously issued permits/approvals may have been corrected, changed, or removed. These corrections, changes, and removals may include Title I changes.

The following changes were made to conditions contained in previously issued permits/approvals (these changes may include Title I changes). Deleted language appears as ~~strikethrough~~ text and new language appears as **bold** text:

- (1) Updated sections A.2, D.1, E.1 to incorporate the addition of one (1) abrasive blast cabinet, one (1) product blender, and one (1) metallic powder unloading process. Sections D.1 and E.1 have been updated for the new emission units and applicable rules.
- (2) Updated section A.3 and D.2 to incorporate the natural gas units air handling units and applicable rules.
- (3) Metallic bonding operations, identified as Bonding Line 1 and Bonding Line 2, were constructed in 2024. Updated unit descriptions in sections A.2, D.1 and E.1 to reflect this change.
- (4) IDEM has changed the emission factor pertaining to Bonding Line 1 and Bonding Line 2 from 0.002 to a conservative 0.01. Emission factor is from AP-42, Chapter 6.4 (Paint and Varnish). Sections D.1 have been updated to reflect the new emission limits.
- (5) The FESOP Annual Certification Form has been revised to include space for an email address and phone number.

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

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

- (d) One (1) metallic bonding operation, identified as Bonding Line 1, ~~approved in 2021 for construction~~ **constructed in 2024**, with a maximum capacity of 3,354 pounds of powder per hour, using baghouse DC-713 and wet scrubber DC-714 for particulate control, and exhausting inside, consisting of:

- (e) One (1) metallic bonding operation, identified as Bonding Line 2, ~~approved in 2021 for construction~~ **constructed in 2024**, with a maximum capacity of 1,677 pounds of powder per hour, equipped with material recovery cyclones for DC-713 and DC-715, using

baghouse DC-713 and wet scrubber DC-715 for particulate control, and exhausting inside, consisting of:

- (f) **One (1) maintenance abrasive blast cabinet utilizing walnut shells, approved in 2024 for construction, with a flow rate of one hundred two and nine tenths pounds per hour. using no control and exhausting indoors.**
- (g) **One (1) Mixaco product blender, identified as Mixaco, approved in 2024 for construction, with a maximum capacity of 7,500 pounds of powder per hour, using baghouse DC-713 as control, and exhausting indoors.**

Under 40 CFR 63, Subpart CCCCCC, this unit is considered an affected facility.

- (h) **One (1) Supersac metallic powder unloading process, identified as Supersac, approved in 2024 for construction, with a maximum capacity of 1,600 pounds per hour, using baghouse DC-713 as control, and exhausting indoors.**

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

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

~~(b) Thirteen (13) natural gas-fired air handling units, identified as units AHU1 through AH13, constructed in 2002, with a total maximum heat input capacity of 6.63 MMBtu/hr.~~

- (b) **Seventeen (17) indirect natural gas-fired air handling units consisting of:**
 - 1) **Thirteen (13) natural gas-fired air handling units, identified as units AHU1 through AHU13, constructed in 2002, with a total maximum heat input capacity of 6.63 MMBtu/hr.**
 - 2) **Four (4) natural gas-fired air handling units, identified as units AHU14 through AHU17, permitted in 2024, with a total maximum heat input capacity of 4.0 MMBtu/hr.**

- (h) Quality control and technical lab activities, including:
 - (1) Vented lab hoods, constructed in 2003;
 - (2) Sample ovens, with a total heat input capacity of 0.05 MMBtu per hour, constructed in 2003;
 - (3) **Sixteen (16) Fourteen (14) electrostatic powder coating booths used to coat metal sample pieces, eleven (11) constructed in 2003, two (2) constructed in 2007, and one (1) constructed in 2018, and two (2) constructed in 2023.**

- (k) One (1) central vacuum system used solely for housekeeping on a needs basis and exhausting outside. The central vacuum system is not for complying with any regulatory requirements of the permit.

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (d) One (1) metallic bonding operation, identified as Bonding Line 1, approved in 2024 for

~~construction~~ **constructed in 2024**, with a maximum capacity of 3,354 pounds of powder per hour, using baghouse DC-713 and wet scrubber DC-714 for particulate control, and exhausting inside, consisting of:

(e) One (1) metallic bonding operation, identified as Bonding Line 2, ~~approved in 2021 for construction~~ **constructed in 2024**, with a maximum capacity of 1,677 pounds of powder per hour, equipped with material recovery cyclones for DC-713 and DC-715, using baghouse DC-713 and wet scrubber DC-715 for particulate control, and exhausting inside, consisting of:

(f) **One (1) maintenance abrasive blast cabinet utilizing walnut shells, approved in 2024 for construction, with a flow rate of 102.9 pounds per hour, using no control, and exhausting indoors.**

(g) **One (1) Mixaco product blender, identified as Mixaco, approved in 2024 for construction, with a maximum capacity of 7,500 pounds of powder per hour, using baghouse DC-713 as control, and exhausting indoors.**

Under 40 CFR 63, Subpart CCCCCC, this unit is considered an affected facility.

(h) **One (1) Supersac metallic powder unloading process, identified as Supersac, approved in 2024 for construction, with a maximum capacity of 1,600 pounds per hour, using baghouse DC-713 as control, and exhausting indoors.**

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

D.1.1 PSD Minor Limits [326 IAC 2-2]

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

Emission Units	PM (lbs/hr)
Mixers and Extrusion Operations at SB-1 through SB-3, Line 1 through Line 5, MBM, and PCB	5.83 (total)
SB-1 mill	0.60
SB-2 mill	0.60
SB-3 mill	0.60
Line 1 mill	0.60
Line 2 mill	0.60
Line 3 mill	0.60
Line 4 mill	0.60
Line 5 mill	0.60
DC-713: Bonding Lines 1 and 2	6.79
DC-713: Mixaco and Supersac	

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

D.1.2 FESOP, PSD and HAP Minor Limits [326 IAC 2-8-4][326 IAC 2-2][326 IAC 2-4.1]

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

Emission Units	PM10 (lbs/hr)	PM2.5 (lbs/hr)	Combined HAPs (lbs/hr)	Single HAP (lbs/hr)
Mixers and Extrusion Operations at SB-1 through SB-3, Line 1 through Line 5, MBM, PCB	5.83 (total)	5.83 (total)	1.75 (total)	0.58 (total)
SB-1 mill	0.60	0.60	0.18	0.06
SB-2 mill	0.60	0.60	0.18	0.06
SB-3 mill	0.60	0.60	0.18	0.06
Line 1 mill	0.60	0.60	0.18	0.06
Line 2 mill	0.60	0.60	0.18	0.06
Line 3 mill	0.60	0.60	0.18	0.06
Line 4 mill	0.60	0.60	0.18	0.06
Line 5 mill	0.60	0.60	0.18	0.06
DC-713: Bonding Lines 1 and 2	6.79	6.79	2.04	0.68
DC-713: Mixaco and Supersac				

Compliance with these limits, combined with the potential to emit PM₁₀ and PM_{2.5} from all other emission units at this source, shall limit the source-wide total potential to emit of PM₁₀ and PM_{2.5} to less than 100 tons per twelve (12) consecutive month period, each, and shall render the requirements of 326 IAC 2-7 (Part 70 Permits) not applicable.

D.1.3 Particulate Emission Limitations from Manufacturing Processes [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2, particulate emissions shall be limited as follows:

Process		Process Weight Rate (tons/hr)	Allowable Particulate Emission Rate (326 IAC 6-3-2) (lb/hr)
SB-1	mixer and feed auger	0.12	0.99
	mill	0.12	0.99
SB-2	mixer and feed auger	0.12	0.99
	mill	0.12	0.99
SB-3	mixer and feed auger	0.26	1.66
	mill	0.26	1.66
Line 1	mixer and feed auger	1.05	4.24
	mill	1.05	4.24
Line 2	mixer and feed auger	0.9	3.82
	mill	0.9	3.82
Line 3	mixer and feed auger	2.05	6.63
	mill	2.05	6.63
Line 4	mixer and feed auger	1.5	5.38
	mill	1.5	5.38
Line 5	mixer and feed auger	1.05	4.24
	mill	1.05	4.24
PCB		0.38	2.14
MBM		2.05	6.63
DC-713: Bonding Line 1		1.68	5.80
DC-713: Bonding Line 2		0.84	3.64
DC-713: Mixaco and Supersac Processes		3.75	9.94

The pound per hour limitations were 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:

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

D.1.5 Testing Requirements [326 IAC 2-1.1-11]

- (c) Not later than 180 days after the startup of Bonding Line 1, Bonding Line 2, and **Mixaco and Supersac Processes**, in order to demonstrate compliance with Conditions D.1.1 and D.1.2, the Permittee shall perform PM, PM10, and PM2.5 testing of the baghouse DC-713 outlet at least once every five (5) years from the date of the most recent valid compliance demonstration.

D.1.7 Parametric Monitoring

The Permittee shall record the pressure drop across the baghouses BH-1 through BH-8, and ~~DC-713~~, used in conjunction with the powder coating manufacturing operation, and **baghouse DC-713, used in conjunction with metallic bonding operations, Mixaco product blender, and Supersac unloading process**, at least once per day when one or more of the processes associated with these baghouses is in operation. When, for any one reading, the pressure drop across the baghouse is outside the normal range, the Permittee shall take a reasonable response. The normal range for this unit is a pressure drop between 1.0 to 6.0 inches of water unless a different upper-bound or lower-bound value for this range is determined during the latest stack test. Section C - Response to Excursions and Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (a) ~~Thirteen (13) natural gas-fired air handling units, identified as units AHU1 through AH13, constructed in 2002, with a total maximum heat input capacity of 6.63 MMBtu/hr.~~
- (b) **Seventeen (17) indirect natural gas-fired air handling units consisting of:**
 - 1) **Thirteen (13) natural gas-fired air handling units, identified as units AHU1 through AHU13, constructed in 2002, with a total maximum heat input capacity of 6.63 MMBtu/hr.**
 - 2) **Four (4) natural gas-fired air handling units, identified as units AHU14 through AHU17, permitted in 2024, with a total maximum heat input capacity of 4.0 MMBtu/hr.**

(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 [326 IAC 6-2-4]

~~Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating), the allowable particulate emission rate from each combustion unit, shall not exceed 0.6 pounds per million Btu (MMBtu) heat input.~~

Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating), the PM emissions from the following units shall be limited to the PM emission limit (Pt) in pounds per MMBtu heat input as specified in the following table:

Unit IDs	Year of Construction	Pt (lb/MMBtu) (each)
AHU 1-3	2002	0.60
AHU 4-7	2002	0.60
AHU 8	2002	0.60
AHU 9-10	2002	0.60
AHU 11-13	2002	0.60
AHU 14-17	2024	0.59

SECTION E.1 NESHP

Emissions Unit Description:

- (d) ~~One (1) metallic bonding operation, identified as Bonding Line 1, approved in 2024 for construction~~ **constructed in 2024**, with a maximum capacity of 3,354 pounds of powder per hour, using baghouse DC-713 and wet scrubber DC-714 for particulate control, and exhausting inside, consisting of:

- (e) ~~One (1) metallic bonding operation, identified as Bonding Line 2, approved in 2024 for construction~~ **constructed in 2024**, with a maximum capacity of 1,677 pounds of powder per hour,

equipped with material recovery cyclones for DC-713 and DC-715, using baghouse DC-713 and wet scrubber DC-715 for particulate control, and exhausting inside, consisting of:

(g) One (1) Mixaco product blender, identified as Mixaco, permitted in 2024 for construction, with a maximum capacity of 7,500 pounds of powder per hour, using baghouse DC-713 as control, and exhausting indoors.

Under 40 CFR 63, Subpart CCCCCC, this unit is considered an affected facility.

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

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

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:	
Email Address:	Phone:
Date:	

Conclusion and Recommendation

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant. An application for the purposes of this review was received on February 13, 2024.

The operation of this powder coating manufacturing shall be subject to the conditions of the attached proposed FESOP Renewal No. 021-47529-00062.

The staff recommends to the Commissioner that the New Source Review and FESOP Renewal be approved.

IDEM Contact

- (a) If you have any questions regarding this matter, please contact Christopher Chin, Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251, or by telephone at (317) 232-8603 or (800) 451-6027, and ask for Christopher Chin or (317) 234-7434.
- (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: Emissions Calculations
Summary of Emissions**

Company Name: PPG Brazil Powder
Source Address: 2831 E. Industrial Park Dr., Brazil, Indiana 47834
Permit Number: F021-47529-00062
Reviewer: Christopher Chin

Uncontrolled Potential to Emit (tons/year)										
Emission Unit	Control Device ID	PM	PM ₁₀	PM _{2.5} *	SO ₂	NOx	VOC	CO	Single HAP (Antimony, Chromium, or Nickel)	Total HAPs
Powder Coating Line SB-1	mixer and feed auger	BHN	24.25	24.25	24.25	-	-	-	2.43	7.28
	extruder	BHN	1.28	1.28	1.28	-	-	-	0.13	0.38
	chiller conveyor	-	-	-	-	-	0.006	-	-	0.01
	mill	BH1	3.98	3.98	3.98	-	-	-	0.40	1.19
Powder Coating Line SB-2	mixer and feed auger	BHN	24.25	24.25	24.25	-	-	-	2.43	7.28
	extruder	BHN	1.28	1.28	1.28	-	-	-	0.13	0.38
	chiller conveyor	-	-	-	-	-	0.006	-	-	0.01
	mill	BH2	3.98	3.98	3.98	-	-	-	0.40	1.19
Powder Coating Line SB-3	mixer and feed auger	BHN	24.25	24.25	24.25	-	-	-	2.43	7.28
	extruder	BHN	1.28	1.28	1.28	-	-	-	0.13	0.38
	chiller conveyor	-	-	-	-	-	0.006	-	-	0.01
	mill	BH3	6.36	6.36	6.36	-	-	-	0.64	1.91
Powder Coating Line 1	mixer and feed auger	BHN	24.25	24.25	24.25	-	-	-	2.43	7.28
	extruder	BHN	1.28	1.28	1.28	-	-	-	0.13	0.38
	chiller conveyor	-	-	-	-	-	0.006	-	-	0.01
	mill	BH4	20.15	20.15	20.15	-	-	-	2.02	6.05
Powder Coating Line 2	mixer and feed auger	BHN	24.25	24.25	24.25	-	-	-	2.43	7.28
	extruder	BHN	1.28	1.28	1.28	-	-	-	0.13	0.38
	chiller conveyor	-	-	-	-	-	0.006	-	-	0.01
	mill	BH5	25.46	25.46	25.46	-	-	-	2.55	7.64
Powder Coating Line 3	mixer and feed auger	BHN	24.25	24.25	24.25	-	-	-	2.43	7.28
	extruder	BHN	1.28	1.28	1.28	-	-	-	0.13	0.38
	chiller conveyor	-	-	-	-	-	0.006	-	-	0.01
	mill	BH6	35.00	35.00	35.00	-	-	-	3.50	10.50
Powder Coating Line 4	mixer and feed auger	BHN	24.25	24.25	24.25	-	-	-	2.43	7.28
	extruder	BHN	1.28	1.28	1.28	-	-	-	0.13	0.38
	chiller conveyor	-	-	-	-	-	0.006	-	-	0.01
	mill	BH7	20.15	20.15	20.15	-	-	-	2.02	6.05
Powder Coating Line 5	mixer and feed auger	BHN	24.25	24.25	24.25	-	-	-	2.43	7.28
	extruder	BHN	1.28	1.28	1.28	-	-	-	0.13	0.38
	chiller conveyor	-	-	-	-	-	0.006	-	-	0.01
	mill	BH8	35.00	35.00	35.00	-	-	-	3.50	10.50
Powder Coating Blender PCB	BHN	25.53	25.53	25.53	-	-	-	2.55	7.66	
Manual Batch Mixing MBM	BHN	25.53	25.53	25.53	-	-	-	2.55	7.66	
Bonding Line 1	DC-713, DC-714, DC-715	734.53	734.53	734.53	-	-	-	73.45	220.36	
Bonding Line 2	DC-714, DC-715	367.26	367.26	367.26	-	-	-	36.73	110.18	
Mixaco and Supersac Processes	DC-713	398.58	398.58	398.58	-	-	-	39.86	119.57	
Bake Oven	-	0.52	0.52	0.52	-	-	-	0.05	0.16	
Clean-up Operations	-	-	-	-	-	-	5.71	-	-	
Combustion- Ovens	-	4.1E-03	0.02	0.02	1.3E-03	0.21	0.01	0.18	4.5E-06	4.1E-03
Combustion - AHU	-	0.09	0.35	0.35	0.03	4.57	0.25	3.84	9.59E-05	0.09
Abrasive Blast Cabinet	-	9.50	6.65	6.65	-	-	-	-	-	-
Powder Coating Booths	-	3.83	3.83	3.83	-	-	-	-	-	-
Total PTE Excluding Fugitives	-	1919.69	1917.11	1917.11	0.03	4.78	6.02	4.02	190.63	572.01
Fugitives	Paved Roads	0.21	0.04	0.01	-	-	-	-	-	-
Total PTE Including Fugitives	-	1919.90	1917.15	1917.12	0.03	4.78	6.02	4.02	190.63	572.01

PM2.5 listed is direct PM2.5

Appendix A: Emissions Calculations
Summary of Emissions

Company Name: PPG Brazil Powder
Source Address: 2831 E. Industrial Park Dr., Brazil, Indiana 47834
Permit Number: F021-47529-00062
Reviewer: Christopher Chin

Emission Limits (lbs/hr)										
Emission Unit	Control Device ID	PM	PM ₁₀	PM _{2.5} *	SO ₂	NOx	VOC	CO	Single HAP (Antimony, Chromium or Nickel)	Total HAPs
Mixers and Extrusion Operations at SB-1 through SB-3, Line 1 through Line 5, MBM, PCB	BHN	5.83	5.83	5.83	-	-	-	-	0.58	1.75
SB-1 mill	BH1	0.60	0.60	0.60	-	-	-	-	0.06	0.18
SB-2 mill	BH2	0.60	0.60	0.60	-	-	-	-	0.06	0.18
SB-3 mill	BH3	0.60	0.60	0.60	-	-	-	-	0.06	0.18
Line 1 mill	BH4	0.60	0.60	0.60	-	-	-	-	0.06	0.18
Line 2 mill	BH5	0.60	0.60	0.60	-	-	-	-	0.06	0.18
Line 3 mill	BH6	0.60	0.60	0.60	-	-	-	-	0.06	0.18
Line 4 mill	BH7	0.60	0.60	0.60	-	-	-	-	0.06	0.18
Line 5 mill	BH8	0.60	0.60	0.60	-	-	-	-	0.06	0.18
Bonding Lines 1 and 2	DC-713	6.79	6.79	6.79	-	-	-	-	0.68	2.04
Mixaco and Supersac Processes					-	-	-	-		

PM, PM10 and PM2.5 lb/hr emission limits for the processes controlled by BHN are set at 2 times the controlled PTE.

PM, PM10 and PM2.5 lb/hr emission limits for the processes controlled by DC-713 are set at 2 times the combined controlled PTE of Bonding Lines 1 and 2 and the Mixaco Blender and Supersac Unloading process.

PM, PM10 and PM2.5 lb/hr emission limits for the mills are set at 1.5 times the highest controlled PTE of the mills.

Single HAP lb/hr emission limits are based on maximum weight percent of single HAP (10%) in all raw material used at the source.

Combined HAPs lb/hr emission limits are based on maximum weight percent of combined HAPs (30%) in all raw material used at the source.

Limited Emissions (tons/year)										
Emission Unit	Control Device ID	PM	PM ₁₀	PM _{2.5} *	SO ₂	NOx	VOC	CO	Single HAP (Antimony, Chromium or Nickel)	Total HAPs
Mixers and Extrusion Operations: SB-1 through SB-3, Line 1 through Line 5, MBM, PCB	BHN	25.53	25.53	25.53	-	-	-	-	2.55	7.66
Milling Operations: SB-1 through SB-3, Line 1 through Line 5	BH1-BH8	21.00	21.00	21.00	-	-	-	-	2.10	6.30
Chiller Conveyors: SB-1 through SB-6, Line 1 through Line 10	-	-	-	-	-	-	0.05	-	-	0.09
Bonding Lines 1 and 2	DC-713	29.74	29.74	29.74	-	-	-	-	2.97	8.92
Mixaco and Supersac Processes					-	-	-	-		
Bake Oven	-	0.52	0.52	0.52	-	-	-	-	0.05	0.16
Clean-up Operations	-	-	-	-	-	-	5.71	-	-	-
Combustion- Ovens	-	4.1E-03	0.02	0.02	1.3E-03	0.21	0.01	0.18	4.5E-06	4.1E-03
Combustion - AHU	-	0.09	0.35	0.35	0.03	4.57	0.25	3.84	9.6E-05	0.09
Abrasive Blaster	-	9.50	6.65	6.65	-	-	-	-	-	-
Powder Coating Booths	-	3.83	3.83	3.83	-	-	-	-	-	-
Total PTE Excluding Fugitives		90.22	87.64	87.64	0.03	4.78	6.02	4.02	7.68	23.22
Paved Roads	-	0.21	0.04	0.01	-	-	-	-	-	-
Total PTE Including Fugitives		90.43	87.68	87.65	0.03	4.78	6.02	4.02	7.68	23.22

*PM2.5 listed is direct PM2.5

Note: The shaded cells indicate where limits are included.

Methodology

Potential to Emit After Issuance (tons/year) = Limited Emissions (lbs/hr) * (8760 hrs/yr) * (1 ton/2000 lbs)

**Appendix A: Emissions Calculations
Powder Coating Manufacturing Operations HAPs**

Company Name: PPG Brazil Powder
Source Address: 2831 E. Industrial Park Dr., Brazil, Indiana 47834
Permit Number: F021-47529-00062
Reviewer: Christopher Chin

Process Information

Metal HAP may be present in formulations.

Maximum Concentrations

The following are the maximum concentrations of HAP that may be present in any one component of a formulation.

Antimony 100%
Chromium 100%
Nickel 100%

Unit ID	PM emissions (lb/hr)	PM emissions (ton/yr)	Antimony (lb/hr)	Antimony (ton/yr)	Chromium (lb/hr)	Chromium (ton/yr)	Nickel (lb/hr)	Nickel (ton/yr)	Total HAP Emissions (lb/hr)	Total HAP Emissions (ton/yr)
SB-1	6.74	29.51	0.67	2.95	0.67	2.95	0.67	2.95	2.02	8.85
SB-2	6.74	29.51	0.67	2.95	0.67	2.95	0.67	2.95	2.02	8.85
SB-3	7.28	31.89	0.73	3.19	0.73	3.19	0.73	3.19	2.18	9.57
Line 1	10.43	45.68	1.04	4.57	1.04	4.57	1.04	4.57	3.13	13.70
Line 2	11.64	50.98	1.16	5.10	1.16	5.10	1.16	5.10	3.49	15.30
Line 3	13.82	60.53	1.38	6.05	1.38	6.05	1.38	6.05	4.15	18.16
Line 4	10.43	45.68	1.04	4.57	1.04	4.57	1.04	4.57	3.13	13.70
Line 5	13.82	60.53	1.38	6.05	1.38	6.05	1.38	6.05	4.15	18.16
PCB	5.83	25.53	0.58	2.55	0.58	2.55	0.58	2.55	1.75	7.66
MBM	5.83	25.53	0.58	2.55	0.58	2.55	0.58	2.55	1.75	7.66
Bonding Line 1	167.70	734.53	16.77	73.45	16.77	73.45	16.77	73.45	50.31	220.36
Bonding Line 2	83.85	367.26	8.39	36.73	8.39	36.73	8.39	36.73	25.16	110.18
Mixaco and Supersac Processes	91.00	398.58	9.10	39.86	9.10	39.86	9.10	39.86	27.30	119.57
Bake Oven	0.12	0.52	0.01	0.05	0.01	0.05	0.01	0.05	0.04	0.16
				190.63		190.63		190.63	130.57	571.88

Assumptions

No HAP containing component comprises more than 10% of a formulation.

Total HAP containing components will not comprise more than 30% of a formulation.

Maximum HAP Emissions

Single HAP Emissions (lb/hr) =

Uncontrolled PM Emissions (lb/hr) x 10% Component HAP Compound x Maximum HAP Content of Compound

Total HAP Emissions (lb/hr) =

Uncontrolled PM Emissions (lb/hr) x 30% Total HAP Compounds x Maximum HAP Content of Compound

**Appendix A: Emission Calculations
Revision Summary**

Company Name: PPG Brazil Powder
Source Address: 2831 E. Industrial Park Dr., Brazil, Indiana 47834
Permit Number: F021-47529-00062
Reviewer: Christopher Chin

PTE of New Emissions Units									
Emission Unit	PM	PM10	PM2.5 *	SO₂	NOx	VOC	CO	Total HAPs	Worst Single HAPs
Abrasive Blaster	9.50	6.65	6.65	-	-	-	-	-	-
Mixaco Blender	328.50	328.50	328.50	-	-	-	-	119.57	39.86
Supersac Metallic Powder Unloading	70.08	70.08	70.08	-	-	-	-		
New AHU emissions	0.03	0.13	0.13	0.01	1.72	0.09	1.44	0.03	0.03
Total	408.12	405.36	405.36	0.01	1.72	0.09	1.44	119.61	39.86

Appendix A: Emissions Calculations
Particulate Emissions from Powder Coating Manufacturing Operations

Company Name: PPG Brazil Powder
Source Address: 2831 E. Industrial Park Dr., Brazil, Indiana 47834
Permit Number: F021-47529-00062
Reviewer: Christopher Chin

Process Information

The powder coat manufacturing operations consist of the following steps:

- | | |
|-------------------------|---|
| 1 Mixer Filling | Ingredients are in powder form; formulations are trade secret. |
| 2 Extrusion and Rolling | The material is extruded as a paste and rolled into a thin layer. |
| 3 Chiller Conveyor | The material is chilled with ethylene glycol until brittle. |
| 4 Chipper | The material is fed into the chipper and broken into smaller pieces for feed into the mill. There are no emissions from this process. |
| 5 Milling | The product is ground to the powder per the product specifications. Material that is not to specification is returned to the hopper for re-mix. |

Line Summary

ID No.	Size	Installation Date	Maximum Line Capacity ¹ (lbs/hr)	Process Weight Rate (ton/hr)	Limiting Process	Milling Baghouse Airflow (cfm)
SB-1	Small	2002	240	0.12	airflow	530
SB-2	Small	2002	240	0.12	airflow	530
SB-3	Small	2011	520	0.26	mill	848
Line 1	Medium	2002	2100	1.05	extruder	2684
Line 2	Medium	2011	1800	0.90	extruder	3390
Line 3	Large	2011	4100	2.05	mill	4662
Line 4	Large	2002	3000	1.50	airflow	2684
Line 5	Medium	2002	2100	1.05	extruder	4662

Notes:¹ The capacity of each line is limited by the process with the lowest capacity.**Emission Sources**

Particulate emissions are generated during mixing, filling, and milling. Unmixed powder could also be released at the feeder auger (extruding).

Unit ID	Process Step	Control Device ID	Uncontrolled Emissions		Controlled Emissions		Allowable Particulate Emission Rate (lb/hr) 326 IAC 6-3-2	Is baghouse required to meet limit?	Is Compliance Assured?
			PM/PM ₁₀ /PM _{2.5} Emissions (lb/hr)	PM/PM ₁₀ /PM _{2.5} Emissions (ton/yr)	PM/PM ₁₀ /PM _{2.5} Emissions (lb/hr)	PM/PM ₁₀ /PM _{2.5} Emissions (ton/yr)			
SB-1	Mixer Filling	BHN	5.54	24.25	0.29	1.28	0.99	Y	Y
	Extrusion	BHN	0.29	1.28	0.29	1.28	Potential Emissions < 0.551 lb/hr		
	Milling ⁵	BH1	0.91	3.98	0.05	0.20	0.99	N	Y
SB-2	Mixer Filling	BHN	5.54	24.25	0.29	1.28	0.99	Y	Y
	Extrusion	BHN	0.29	1.28	0.29	1.28	Potential Emissions < 0.551 lb/hr		
	Milling ⁵	BH2	0.91	3.98	0.05	0.20	0.99	N	Y
SB-3	Mixer Filling	BHN	5.54	24.25	0.29	1.28	1.66	Y	Y
	Extrusion	BHN	0.29	1.28	0.29	1.28	Potential Emissions < 0.551 lb/hr		
	Milling ⁵	BH3	1.45	6.36	0.07	0.32	1.66	N	Y
Line 1	Mixer Filling	BHN	5.54	24.25	0.29	1.28	4.24	Y	Y
	Extrusion	BHN	0.29	1.28	0.29	1.28	Potential Emissions < 0.551 lb/hr		
	Milling ⁵	BH4	4.60	20.15	0.23	1.01	4.24	Y	Y
Line 2	Mixer Filling	BHN	5.54	24.25	0.29	1.28	3.82	Y	Y
	Extrusion	BHN	0.29	1.28	0.29	1.28	Potential Emissions < 0.551 lb/hr		
	Milling ⁵	BH5	5.81	25.46	0.29	1.27	3.82	Y	Y
Line 3	Mixer Filling	BHN	5.54	24.25	0.29	1.28	6.63	N	Y
	Extrusion	BHN	0.29	1.28	0.29	1.28	Potential Emissions < 0.551 lb/hr		
	Milling ⁵	BH6	7.99	35.00	0.40	1.75	6.63	Y	Y
Line 4	Mixer Filling	BHN	5.54	24.25	0.29	1.28	5.38	Y	Y
	Extrusion	BHN	0.29	1.28	0.29	1.28	Potential Emissions < 0.551 lb/hr		
	Milling ⁵	BH7	4.60	20.15	0.23	1.01	5.38	N	Y
Line 5	Mixer Filling	BHN	5.54	24.25	0.29	1.28	4.24	Y	Y
	Extrusion	BHN	0.29	1.28	0.29	1.28	Potential Emissions < 0.551 lb/hr		
	Milling ⁵	BH8	7.99	35.00	0.40	1.75	4.24	Y	Y
PCB	Blender Filling	BHN	5.83	25.53	0.29	1.28	2.13	Y	Y
MBM	Batch Preparation	BHN	5.83	25.53	0.29	1.28	6.63	N	Y

Notes:³ Particulate emission rates are based on the outlet grain loading (gr/dscf), flowrate (cfm), and control efficiency (%) of the baghouse.⁴ BHN pulls particulate emissions from the processes at multiple points along the process. BHN is also controlling the Manual Batch Mixing Operation and the Powder Coating Blender.⁵ There is a pick-up point for BHN above the extrusion point; however, there are no significant emissions at this point in the process because the material has been pressurized during the mixing process to form a paste. For a conservative estimate, PPG is excluding the extruder pick-up point from each line and assuming 95% of the emissions will be captured at the mixer filling point and 5% will be captured at the extrusion process.

Baghouse	Airflow Rate (cfm)	Controlled				Uncontrolled			
		PM/PM ₁₀ /PM _{2.5} Emissions (lb/hr)	PM/PM ₁₀ /PM _{2.5} Emissions (ton/yr)	Emissions per Emissions Point (lb/hr)	Emissions per Emissions Point (ton/yr)	PM/PM ₁₀ /PM _{2.5} Emissions (lb/hr)	PM/PM ₁₀ /PM _{2.5} Emissions (ton/yr)	Emissions per Emissions Point (lb/hr)	Emissions per Emissions Point (ton/yr)
BHN	34,000	2.91	12.76	0.29	1.28	58.29	255.29	5.83	25.53

Control Efficiency: 95%

No. of Pick-up points: 10

0.01 gr/dscf

60 min/hr

7,000 gr/lb

⁶ Particulate emissions from the baghouses dedicated to each milling operation are calculated on the next page.**Methodology**

Controlled Emission Rate (lb/hr) = Outlet Grain Loading (gr/dscf) x Air Flow (cfm) x 60 (min/hr) / 7,000 (gr/lb)

Controlled Emission Rate (tpy) = Controlled Emission Rate (lb/hr) x 8,760 (hr/yr) / 2,000 (lb/ton)

Uncontrolled Emission Rate (lb/hr) = Controlled Emission Rate (lb/hr) / (1 - Control Efficiency (%) / 100)

Uncontrolled Emission Rate (tpy) = Controlled Emission Rate (tpy) / (1 - Control Efficiency (%) / 100)

PM₁₀ and PM_{2.5} emissions are conservatively assumed to be equal to PM emissions.

There is no chipper associated with the PCB.

Each mixer hopper is controlled by BHN. The exit point is above the extruder and at this point the material is a paste.

The chipper does not have an exhaust point, and there are no emissions from this process. The thin, brittle material that is extruded and chilled is fed into the chipper where the material is broken into smaller pieces and fed into the mill.

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

**Company Name: PPG Brazil Powder
Source Address: 2831 E. Industrial Park Dr., Brazil, Indiana 47834
Permit Number: F021-47529-00062
Reviewer: Christopher Chin**

Ovens

Emission Unit ID	Maximum Heat Input Capacity (MMBtu/hr)
H1	0.05
H2	0.05
H3	0.05
H4	0.05
H5	0.05
H6	0.05
H7	0.05
H8	0.1
Sample Ovens	0.05
Total	0.50

Heat Input Capacity	HHV mmBtu	Potential Throughput
MMBtu/hr	mmscf	MMCF/yr
0.5	1020	4.3

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	4.1E-03	0.02	0.02	1.3E-03	0.21	0.01	0.18

*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	4.5E-06	2.6E-06	1.6E-04	3.9E-03	7.3E-06	4.04E-03

	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	1.1E-06	2.4E-06	3.0E-06	8.2E-07	4.5E-06	1.2E-05
	Total HAPs					4.1E-03
	Worst HAP					3.9E-03
	Highest Source-Wide HAP					4.5E-06

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

**Company Name: PPG Brazil Powder
Source Address: 2831 E. Industrial Park Dr., Brazil, Indiana 47834
Permit Number: F021-47529-00062
Reviewer: Christopher Chin**

Air Handling Units

Emission Unit ID	Maximum Heat Input Capacity
	(MMBtu/hr)
AHU1	0.394
AHU2	0.394
AHU3	0.394
AHU4	1.000
AHU5	1.000
AHU6	1.000
AHU7	1.000
AHU8	0.394
AHU9	0.270
AHU10	0.270
AHU11	0.173
AHU12	0.173
AHU13	0.173
AHU14	1.000
AHU15	1.000
AHU16	1.000
AHU17	1.000
Total	10.634

Heat Input Capacity	HHV	Potential Throughput
MMBtu/hr	mmBtu mmscf	MMCF/yr
10.6	1020	91.3

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	8.68E-02	0.35	0.35	2.74E-02	**see below	0.25	3.84

*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	Dichlorobenzen	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	9.6E-05	5.5E-05	3.4E-03	8.22E-02	1.6E-04	8.59E-02

	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	2.3E-05	5.0E-05	6.4E-05	1.7E-05	9.6E-05	2.5E-04

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.

Total HAPs	8.62E-02
Worst HAP	8.22E-02
Highest Source-Wide HAP	9.6E-05

3.09E-02

**Appendix A: Emissions Calculations
Indirect Natural Gas Combustion Only
6-2-4 applicability for Air handlers**

**Company Name: PPG Brazil Powder
Source Address: 2831 E. Industrial Park Dr., Brazil, Indiana 47834
Permit Number: F021-47529-00062
Reviewer: Christopher Chin**

Air Handling Units

Emission Unit ID	Maximum Heat Input Capacity	Year	Q	Particulate Limitation
	(MMBtu/hr)		(MMBtu/hr)	(Pt)(lb/MMBtu)
AHU1	0.394	2002	6.63	0.67
AHU2	0.394			
AHU3	0.394			
AHU4	1.000			
AHU5	1.000			
AHU6	1.000			
AHU7	1.000			
AHU8	0.394			
AHU9	0.270			
AHU10	0.270			
AHU11	0.173			
AHU12	0.173			
AHU13	0.173			
AHU14	1.000	2024	10.63	0.59
AHU15	1.000			
AHU16	1.000			
AHU17	1.000			
Total	10.634			

Methodology

326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating)

$$Pt = \frac{1.09}{Q^{0.25}}$$

Pt = Pounds of particulate matter per million Btu (lb/MMBtu) heat input

Q = Total source maximum operating capacity rating in million Btu per hour (MMBtu/hr) heat input in the year all boilers, heaters, or furnaces were operating.

Appendix A: Emissions Calculations
Particulate Emissions from Milling Operations

Company Name: PPG Brazil Powder
Source Address: 2831 E. Industrial Park Dr., Brazil, Indiana 47834
Permit Number: F021-47529-00062
Reviewer: Christopher Chin

Process Information

Each line has a dedicated baghouse for the milling operations.

Particulate emissions calculations from the baghouses dedicated to the milling portion of each powder coating manufacturing line as provided

EUID	BHID	Flow rate (m ³ /min)	Air Flow Rate (cfm)	Controlled PM/PM10/PM2.5 Emission Rate (lb/hr)	Controlled PM/PM10/PM2.5 Emission Rate (ton/yr)	Uncontrolled PM/PM10/PM2.5 Emission Rate (lb/hr)	Uncontrolled PM/PM10/PM2.5 Emission Rate (ton/yr)
SB-1	BH1	15	530	0.05	0.20	0.91	3.98
SB-2	BH2	15	530	0.05	0.20	0.91	3.98
SB-3	BH3	24	848	0.07	0.32	1.45	6.36
Line 1	BH4	76	2,684	0.23	1.01	4.60	20.15
Line 2	BH5	96	3,390	0.29	1.27	5.81	25.46
Line 3	BH6	132	4,662	0.40	1.75	7.99	35.00
Line 4	BH7	76	2,684	0.23	1.01	4.60	20.15
Line 5	BH8	132	4,662	0.40	1.75	7.99	35.00
Total PTE (ton/yr)					7.50		

Notes

0.01 gr/dscf	95% Control Efficiency
3.28084 ft/m	60 min/hr
35.31 ft ³ /m ³	7000 gr/lb

Methodology

Controlled Emission Rate (lb/hr) = Outlet Grain Loading (gr/dscf) x Air Flow (cfm) x 60 (min/hr) / 7,000 (gr/lb)

Controlled Emission Rate (tpy) = Controlled Emission Rate (lb/hr) x 8,760 (hr/yr) / 2,000 (lb/ton)

Uncontrolled Emission Rate (lb/hr) = Controlled Emission Rate (lb/hr) / (1 - Control Efficiency (%))

Uncontrolled Emission Rate (tpy) = Controlled Emission Rate (tpy) / (1 - Control Efficiency (%))

PM10 and PM2.5 emissions are conservatively assumed to be equal to PM emissions.

**Appendix A: Emissions Calculations
Chilling Conveyors**

**Company Name: PPG Brazil Powder
Source Address: 2831 E. Industrial Park Dr., Brazil, Indiana 47834
Permit Number: F021-47529-00062
Reviewer: Christopher Chin**

Density (lb/gal)	Wt% of HAP	Max Usage (gal/yr)	Amount lost from system (%)	Total VOC/HAP (lb/hr)	Total VOC/HAP (tons/yr)	Each Line	
						VOC/HAP (lb/hr)	VOC/HAP (tons/yr)
8.76	35%	600	10%	0.02	0.09	1.3E-03	0.01

The chilling conveyors utilize a solution with a 35% concentration of ethylene glycol.
The solvent is recycled utilizing a closed system; therefore, a conservative estimate of 10% solvent loss is assumed.

Appendix A: Emissions Calculations
Metallic Bonding Lines 1 and 2

Company Name: PPG Brazil Powder
Source Address: 2831 E. Industrial Park Dr., Brazil, Indiana 47834
Permit Number: F021-47529-00062
Reviewer: Christopher Chin

Line	Emission Unit	Control Device	Charge Rate (lb/hr)	Charge Rate (lb/yr)	Uncontrolled PM/PM10/PM2.5 Emissions (lb/hr)	Uncontrolled PM/PM10/PM2.5 Emissions (ton/yr)	Controlled PM/PM10/PM2.5 Emissions (lb/hr)	Controlled PM/PM10/PM2.5 Emissions (ton/yr)
Line 1	Metallic Powder Unloading	Wet Scrubber DC-714	204	1,787,040	2.04	8.94	2.04E-02	0.09
	Coating Powder Unloading	DC-713	3150	27,594,000	31.50	137.97	0.32	1.38
	Hopper/Mixer	DC-713	3354	29,381,040	33.54	146.91	0.34	1.47
	Cooler	DC-713	3354	29,381,040	33.54	146.91	0.34	1.47
	Sieve	DC-713	3354	29,381,040	33.54	146.91	0.34	1.47
	Packaging	DC-713	3354	29,381,040	33.54	146.91	0.34	1.47
Total						734.53	1.66	7.26

Line 2	Metallic Powder Unloading	Wet Scrubber DC-715	102	893,520	1.02	4.47	1.02E-02	0.04
	Coating Powder Unloading	DC-713	1575	13,797,000	15.75	68.99	0.16	0.69
	Hopper/Mixer	DC-713	1677	14,690,520	16.77	73.45	0.17	0.73
	Cooler	DC-713	1677	14,690,520	16.77	73.45	0.17	0.73
	Sieve	DC-713	1677	14,690,520	16.77	73.45	0.17	0.73
	Packaging	DC-713	1677	14,690,520	16.77	73.45	0.17	0.73
Total						367.26	0.83	3.63

Mixaco and Supersac	Mixaco Blender	DC-713	7500	65,700,000	75.00	328.50	0.75	3.29
	Supersac Metallic Powder Unloading	DC-713	1600	14,016,000	16.00	70.08	0.16	0.70
Total						398.58	0.91	3.99

Control Device	Process Weight Rate (ton/hr)	326 IAC 6-3-2 Allowable Particulate Emission Rate (lb/hr)	Uncontrolled PM Emissions (lb/hr)	Is baghouse required to meet limit?
Baghouse DC-713: Bonding Line 1	1.68	5.80	33.54	Yes
Baghouse DC-713: Bonding Line 2	0.84	3.64	16.77	Yes
Baghouse DC-713: Mixaco and Supersac Processes	3.75	9.94	75.00	Yes
Wet Scrubber DC-714	0.102	0.89	2.04	exempt
Wet Scrubber DC-715	0.051	0.56	1.02	exempt

Notes

1.0% Emission Factors from AP-42, Chapter 6.4 (Paint and Varnish) Section 1. Paint Manufacturing
99% Control Efficiency

Methodology

Uncontrolled PM/PM10/PM2.5 Emissions (lb/hr) = Charge Rate (lb/hr) * PM/PM10/PM2.5 Emission Factor
Uncontrolled PM/PM10/PM2.5 Emissions (ton/yr) = Charge Rate (lb/yr) * PM/PM10/PM2.5 Emission Factor * (1 ton/2000 lb)
Controlled PM/PM10/PM2.5 Emissions (lb/hr) = Uncontrolled PM/PM10/PM2.5 Emissions (lb/hr) * (1 - Control Efficiency %)
Controlled PM/PM10/PM2.5 Emissions (ton/yr) = Uncontrolled PM/PM10/PM2.5 Emissions (ton/yr) * (1 - Control Efficiency %)
PM10 and PM2.5 emissions are conservatively assumed to be equal to PM emissions.

**Appendix A: Emissions Calculations
Bake Oven Process Emissions**

**Company Name: PPG Brazil Powder
Source Address: 2831 E. Industrial Park Dr., Brazil, Indiana 47834
Permit Number: F021-47529-00062
Reviewer: Christopher Chin**

Emission Unit	Powder per Screw¹ (lb)	Max Screws Cleaned Per Week	Emission Rate (lbs/yr)	Uncontrolled PM/PM10/PM2.5 Emissions (lb/hr)	Uncontrolled PM/PM10/PM2.5 Emissions (ton/yr)
Electric Bake Oven 1	1	20	1040	0.12	0.52

Total (ton/yr)

Methodology

¹ Based on conservative engineering estimate

Bake Oven is powered by electricity, therefore no combustion emissions have been calculated.

PTE of PM/PM10 (tons/year) = Powder per Screw (lbs) * No. of units /week * 52 weeks/year * 1 ton/2000 lbs

PM=PM10=PM2.5

**Appendix A: Emissions Calculations
Solvent Clean-up Operations**

**Company Name: PPG Brazil Powder
Source Address: 2831 E. Industrial Park Dr., Brazil, Indiana 47834
Permit Number: F021-47529-00062
Reviewer: Christopher Chin**

Solvent Usage (gal/wk)	Solvent Usage (gal/yr)	Density (lb/gal)	% VOC	VOC Usage (gal/yr)	VOC (lb/hr)	VOC (ton/yr)
55	2860.00	6.66	60%	1,716	1.30	5.71

Methodology

Solvent Usage (gal/yr) = Solvent Usage (gal/wk) * 52

% VOC and Density (lb/gal) from MSDS sheet

VOC (gal/yr) = Solvent Usage (gal/yr) * % VOC

VOC (ton/yr) = VOC (gal/yr) * Density (lb/gal) * (1 ton/ 2000 lbs)

**Appendix A: Emissions Calculations
Quality Control Powder Coating Booths (16)**

**Company Name: PPG Brazil Powder
Source Address: 2831 E. Industrial Park Dr., Brazil, Indiana 47834
Permit Number: F021-47529-00062
Reviewer: Christopher Chin**

Material	Density (lb/gal)	Weight % Volatile	Volume % Non-Volatiles (solids)	Gal of Material (gal/unit)	Maximum (unit/hour)	Transfer Efficiency	Control Efficiency	Pounds VOC per gallon of coating	Potential VOC (lb/hr)	Potential VOC (lb/day)	Potential VOC (ton/yr)	Potential PM=PM10=PM2.5 (ton/yr)	Controlled Particulate (ton/yr)
Powder Coating	14.22	0.00%	100.00%	0.10	25.00	65%	99%	0.00	0.00	0.00	0.00	3.83	0.04
Total PTE:											0.00	3.83	

Methodology

Pounds of VOC per Gallon Coating = (Density (lb/gal) * Weight % Volatile

Potential VOC (lb/hr) = Pounds of VOC per gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr)

Potential VOC (lb/day) = Pounds of VOC per gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day)

Potential VOC (ton/yr) = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (8760 hr/yr) * (1 ton/2000 lbs)

PM10 and PM2.5 emissions is assumed equal to PM

Potential PM=PM10=PM2.5 (ton/yr) = (units/hour) * (lb/unit) * (1- Weight % Volatiles) * (1-Transfer efficiency) *(8760 hrs/yr) *(1 ton/2000 lbs)

Controlled Particulate (ton/yr) = Potential Particulate (ton/yr) * (1 - Control Efficiency)

Transfer efficiency is based on HVLP spray, flat surface.

The particulate overspray emissions are controlled by a dry filter system with an overall control efficiency of 99%.

**Appendix A: Emission Calculations
Abrasive Blasting Cabinet**

Company Name: PPG Brazil Powder
Source Address: 2831 E. Industrial Park Dr., Brazil, Indiana 47834
Permit Number: F021-47529-00062
Reviewer: Christopher Chin

Table 1 - Emission Factors for Abrasives

Abrasive	Emission Factor (EF)	
	lb PM / lb abrasive	lb PM10 / lb PM
Sand	0.041	0.70
Grit	0.010	0.70
Steel Shot	0.004	0.86
Other	0.010	

Table 2 - Density of Abrasives (lb/ft3)

Abrasive	Density (lb/ft3)
Al oxides	160
Sand	99
Steel	487
Walnut*	84.240

Table 3 - Sand Flow Rate (FR1) Through Nozzle (lb/hr)

Flow rate (FR1) of sand through a blasting nozzle as a function of nozzle pressure and internal diameter (ID1)

Nozzle Type (diameter)	Internal diameter, in	Nozzle Pressure (psig)								
		30	40	50	60	70	80	90	100	
No. 2 (1/8 inch)	0.125	28	35	42	49	55	63	70	77	
No. 3 (3/16 inch)	0.1875	65	80	94	107	122	135	149	165	
No. 4 (1/4 inch)	0.25	109	138	168	195	221	255	280	309	
No. 5 (5/16 inch)	0.3125	205	247	292	354	377	420	462	507	
No. 6 (3/8 inch)	0.375	285	355	417	477	540	600	657	720	
No. 7 (7/16 inch)	0.4375	385	472	560	645	755	820	905	940	
No. 8 (1/2 inch)	0.5	503	615	725	835	945	1050	1160	1265	
No. 10 (5/8 inch)	0.625	820	990	1170	1336	1510	1680	1850	2030	
No. 12 (3/4 inch)	0.75	1140	1420	1670	1915	2160	2400	2630	2880	
No. 16 (1 inch)	1	2030	2460	2900	3340	3780	4200	4640	5060	

CALCULATIONS

Adjusting Flow Rates for Different Abrasives and Nozzle Diameters
 Flow Rate (FR) = Abrasive flow rate (lb/hr) of abrasive at nozzle pressure and internal nozzle diameter (ID)

D1 = Density of sand from Table 2 = 99.000 lb/ft3
 ID1 = Internal diameter of nozzle for sand blasting from Table 3 = 0.25 inch
 FR1 = Sand flow rate at nozzle pressure and internal diameter (ID1) from Table 3 = 255 lb/hr

D = Density of actual abrasive = 84.240 lb/ft3
 ID = internal diameter of actual nozzle = 0.25 inch
 FR = Flow rate of actual abrasive (lb/hr) = 217.0 lb/hr (per nozzle)

Potential to Emit Before Control

FR = Flow rate of actual abrasive (lb/hr) = 217.0 lb/hr (per nozzle)
 w = fraction of time of wet blasting = 0 %
 N = number of nozzles = 1
 EF = PM emission factor for actual abrasive from Table 1 = 0.010 lb PM/ lb abrasive
 PM10 emission factor ratio for actual abrasive from Table 1 = 0.70 lb PM10 / lb PM

	PM	PM10	PM2.5	
Potential to Emit (before control) =	2.170	1.519	1.519	lb/hr
=	52.08	36.45	36.45	lb/day
=	9.50	6.65	6.65	ton/yr

Potential to Emit After Control

	PM	PM10	PM2.5	
Emission Control Device Efficiency =	99.0%	99.0%	99.0%	
Potential to Emit (after control) =	2.2E-02	1.5E-02	1.5E-02	lb/hr
=	0.52	0.36	0.36	lb/day
=	0.095	0.067	0.067	ton/yr

METHODOLOGY

PM2.5 emissions assumed equal to PM10 emissions.
 Emission Factors from STAPPA/ALAPCO "Air Quality Permits", Vol. I, Section 3 "Abrasive Blasting" (1991 edition)
 * Specific Gravity for walnut shell is 1.35. Provided by "Walnut Shells Part 6701" SDS. Density of Abrasive (lb/ft3) =(Relative Density) * (Density of water (lb/ft3))
 Flow rate of actual abrasive (FR) (lb/hr) = FR1 x (ID/ID1)^2 x (D/D1)
 Potential to Emit (before control) = EF x FR x (1 - w/200) x N (where w should be entered in as a whole number (if w is 50%, enter 50))
 Potential to Emit (after control) = [Potential to Emit (before control)] * [1 - control efficiency]
 Potential to Emit (tons/year) = [Potential to Emit (lb/hour)] x [8760 hours/year] x [ton/2000 lbs]

Appendix A: Emission Calculations
Fugitive Dust Emissions - Paved Roads

Company Name: PPG Brazil Powder
 Source Address: 2831 E. Industrial Park Dr., Brazil, Indiana 47834
 Permit Number: F021-47529-00062
 Reviewer: Christopher Chin

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 Loaded (tons/trip)	Total Weight driven per day (ton/day)	Maximum one-way distance (feet/trip)	Maximum one-way distance (mi/trip)	Maximum one-way miles (miles/day)	Maximum one-way miles (miles/yr)
Vehicle (entering plant) (one-way trip)	30.0	1.0	30.0	21.0	630.0	50	0.009	0.3	103.7
Vehicle (leaving plant) (one-way trip)	40.0	1.0	40.0	21.0	840.0	50	0.009	0.4	138.3
Totals			70.0		1470.0			0.7	242.0

Average Vehicle Weight Per Trip = tons/trip
 Average Miles Per Trip = 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	
where k =	0.011	0.0022	0.00054	lb/VMT = particle size multiplier (AP-42 Table 13.2.1-1)
W =	21.0	21.0	21.0	tons = average vehicle weight (provided by source)
sL =	9.7	9.7	9.7	g/m ² = 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 = $E_f * [1 - (p/4N)]$
 where p = days of rain greater than or equal to 0.01 inches (see Fig. 13.2.1-2)
 N = days per year

	PM	PM10	PM2.5	
Unmitigated Emission Factor, Ef =	1.941	0.388	0.0953	lb/mile
Mitigated Emission Factor, Eext =	1.775	0.355	0.0871	lb/mile
Dust Control Efficiency =	0%	0%	0%	(pursuant to control measures outlined in fugitive dust control plan)

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)	Mitigated PTE of PM (After Control) (tons/yr)	Mitigated PTE of PM10 (After Control) (tons/yr)	Mitigated PTE of PM2.5 (After Control) (tons/yr)
Vehicle (entering plant) (one-way trip)	0.09	0.02	0.00	0.09	0.02	0.00
Vehicle (leaving plant) (one-way trip)	0.12	0.02	0.01	0.12	0.02	0.01
Totals	0.21	0.04	0.01	0.21	0.04	0.01

Methodology

Total Weight driven per day (ton/day) = [Maximum Weight Loaded (tons/trip)] * [Maximum trips per day (trip/day)]
 Maximum one-way distance (mi/trip) = [Maximum one-way distance (feet/trip)] / [5280 ft/mile]
 Maximum one-way miles (miles/day) = [Maximum trips per 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]



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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Eric J. Holcomb
Governor

Brian C. Rockensuess
Commissioner

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

TO: Justin Opperman
PPG Brazil Powder
2831 East Industrial Park Drive
Brazil, Indiana 47834

DATE: July 1, 2024

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

SUBJECT: Final Decision
FESOP Renewal with Significatn New Source Review
021-47529-00062

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 47529

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.

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



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Eric J. Holcomb
Governor

Brian C. Rockensuess
Commissioner

July 1, 2024

TO: Brazil Public Library

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

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

Applicant Name: PPG Brazil Powder
Permit Number: 021-47529-00062

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



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Eric J. Holcomb
Governor

Brian C. Rockensuess
Commissioner

July 1, 2024
PPG Brazil Powder
021-47529-00062

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 47529

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. 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	JJACKSON 7/1/2024 PPG Brazil Powder 021-47529-00062 (final)		Type of Mail: CERTIFICATE OF MAILING ONLY	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	Handing 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		Justin Opperman PPG Brazil Powder 2831 E Industrial Park Dr Brazil IN 47834 (Source CAATS) Sent Via UPS Campus Ship										
2		Orel Salinas Plant Manager PPG Brazil Powder 2831 E Industrial Park Dr Brazil IN 47834 (RO CAATS)										
3		Brazil Public Library 204 N Walnut St Brazil IN 47834-2297 (Library)										
4		Clay County Health Department 18 N Walnut St Brazil IN 47834-2718 (Health Department)										
5		Brazil City Council and Mayors Office 203 E National Ave Brazil IN 47834 (Local Official)										
6		Clay County Board of Commissioners 609 E National Ave Brazil IN 47834 (Local Official)										
7		Anthony Henley August Mack Environmental Inc 1302 N Meridian St Ste 300 Indianapolis IN 46202 (Consultant)										
8		Mr. Mark Fitton Tribune-Star 2800 Poplar St, Ste 37A Terre Haute IN 47807 (Affected Party)										
9												
10												
11												
12												
13												
14												
15												

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