NOTICE OF 30-DAY PERIOD
FOR PUBLIC COMMENT

Preliminary Findings Regarding a
Significant Revision to a
Federally Enforceable State Operating Permit (FESOP)

for PPG Industries, Inc. in Clay County

Significant Permit Revision No.: 021-44015-00062

The Indiana Department of Environmental Management (IDEM) has received an application from PPG Industries, Inc., located at 2831 E. Industrial Park Dr., Brazil, Indiana 47834, for a significant revision of its FESOP issued on November 13, 2014. If approved by IDEM’s Office of Air Quality (OAQ), this proposed revision would allow PPG Industries, Inc. to make certain changes at its existing source. PPG Industries, Inc. has applied to construct two (2) metallic bonding operations, one electric bake oven for cleaning of powder screws, and an insignificant maintenance area, and to remove emission units from the permit that were not constructed.

The applicant intends to construct and operate new equipment that will emit air pollutants; therefore, the permit contains new or different permit conditions. In addition, some conditions from previously issued permits/approvals have been corrected, changed, or removed. These corrections, changes, and removals may include Title I changes (e.g., changes that add or modify synthetic minor emission limits). The potential to emit regulated air pollutants will continue to be limited to less than the Title V and PSD major threshold levels. IDEM has reviewed this application and has developed preliminary findings, consisting of a draft permit and several supporting documents, which would allow the applicant to make this change.

A copy of the permit application and IDEM’s preliminary findings have been sent to:

Brazil Public Library
204 North Walnut Street
Brazil, IN 47834

A copy of the preliminary findings is available on the Internet at: http://www.in.gov/ai/appfiles/idem-caats/.

A copy of the application and preliminary findings is also available via IDEM’s Virtual File Cabinet (VFC). To access 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.

How can you participate in this process?

The date that this notice is posted on IDEM’s website (https://www.in.gov/idem/public-notices/) marks the beginning of a 30-day public comment period. If the 30th day of the comment period falls on a day when IDEM offices are closed for business, all comments must be postmarked or delivered in person on the next business day that IDEM is open.

You may request that IDEM hold a public hearing about this draft permit. If adverse comments concerning the air pollution impact of this draft permit are received, with a request for a public hearing,
IDEM will decide whether or not to hold a public hearing. IDEM could also decide to hold a public
meeting instead of, or in addition to, a public hearing. If a public hearing or meeting is held, IDEM will
make a separate announcement of the date, time, and location of that hearing or meeting. At a hearing,
you would have an opportunity to submit written comments and make verbal comments. At a meeting,
you would have an opportunity to submit written comments, ask questions, and discuss any air pollution
concerns with IDEM staff.

Comments and supporting documentation, or a request for a public hearing should be sent in writing to
IDEM at the address below. If you comment via e-mail, please include your full U.S. mailing address so
that you can be added to IDEM’s mailing list to receive notice of future action related to this permit. If you
do not want to comment at this time, but would like to receive notice of future action related to this permit
application, please contact IDEM at the address below. Please refer to permit number SPR 021-44015-
00062 in all correspondence.

Comments should be sent to:

Tamara Havics
IDEM, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
(800) 451-6027, ask for Tamara Havics or (317) 232-8219
Or dial directly: (317) 232-8219
Fax: (317) 232-6749 attn: Tamara Havics
E-mail: THavics @idem.IN.gov

All comments will be considered by IDEM when we make a decision to issue or deny the permit.
Comments that are most likely to affect final permit decisions are those based on the rules and laws
governing this permitting process (326 IAC 2), air quality issues, and technical issues. IDEM does not
have legal authority to regulate zoning, odor, or noise. For such issues, please contact your local
officials.

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/.

What will happen after IDEM makes a decision?

Following the end of the public comment period, IDEM will issue a Notice of Decision stating whether the
permit has been issued or denied. If the permit is issued, it may be different than the draft permit
because of comments that were received during the public comment period. If comments are received
during the public notice period, the final decision will include a document that summarizes the comments
and IDEM’s response to those comments. If you have submitted comments or have asked to be added to
the mailing list, you will receive a Notice of the Decision. The notice will provide details on how you may
appeal IDEM’s decision, if you disagree with that decision. The final decision will also be available on the
Internet at the address indicated above and will also be sent to the local library indicated above, , and the
IDEM public file room on the 12th floor of the Indiana Government Center North, 100 N. Senate Avenue,
Indianapolis, Indiana 46204-2251.

If you have any questions, please contact Tamara Havics of my staff at the above address.

Ghassan Shalabi, Section Chief
Permits Branch
Office of Air Quality
Mr. Justin Opperman  
PPG Industries, Inc.  
2831 East Industrial Park Drive  
Brazil, IN 47834  

Re: 021-44015-00062  
Significant Revision to  
F021-34170-00062  

Dear Mr. Opperman:

PPG Industries, Inc. was issued a Federally Enforceable State Operating Permit (FESOP) Renewal No. F021-34170-00062 on November 13, 2014 for a stationary powder coating manufacturing source, located at 2831 East Industrial Park Drive, Brazil, IN 47834. On April 26, 2021, the Office of Air Quality (OAQ) received an application from the source requesting to construct two (2) metallic bonding operations, one electric bake oven for cleaning of powder screws, and an insignificant maintenance area, and to remove emission units from the permit that were not constructed. Pursuant to the provisions of 326 IAC 2-8-11.1, these changes to the permit are required to be reviewed in accordance with the Significant Permit Revision (SPR) procedures of 326 IAC 2-8-11.1(f). Pursuant to the provisions of 326 IAC 2-8-11.1, a Significant Permit Revision to this permit is hereby approved as described in the attached Technical Support Document (TSD).

Pursuant to 326 IAC 2-8-11.1, the following emission units are approved for construction at the source:

(a) One (1) metallic bonding operation, approved in 2021 for construction, 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.

[This is an affected source under 40 CFR 63 Subpart CCCCCCC.]

(b) One (1) metallic bonding operation, approved in 2021 for construction, 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.

[This is an affected source under 40 CFR 63 Subpart CCCCCC.]

(c) A maintenance area for welding and hot work utilizing handheld tools, exhausted to maintenance ventilation equipped with dry filters, and exhausting to Stack M1.

(d) 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.

The following construction conditions are applicable to the proposed project:

**General Construction Conditions**

1. The data and information supplied with the application shall be considered part of this permit revision approval. Prior to any proposed change in construction which may affect the potential to emit (PTE) of the proposed project, the change must be approved by the Office of Air Quality (OAQ).

2. This approval to construct does not relieve the Permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.

**Effective Date of the Permit**

3. Pursuant to IC 13-15-5-3, this approval becomes effective upon its issuance.

**Commenced Construction**

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

5. All requirements and conditions of this construction approval shall remain in effect unless modified in a manner consistent with procedures established pursuant to 326 IAC 2.

Pursuant to 326 IAC 2-8-11.1, this permit shall be revised by incorporating the Significant Permit Revision into the permit.
All other conditions of the permit shall remain unchanged and in effect. Please find attached the entire FESOP as revised. The permit references the below-listed attachment(s). Since this attachment has been provided in previously issued approvals for this source, IDEM OAQ has not included a copy of this attachment with this revision:

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

Previously issued approvals for this source containing this attachment are available on the Internet at: http://www.in.gov/ai/appfiles/idem-caats/.

Previously issued approvals for this source are also available via IDEM’s Virtual File Cabinet (VFC). To access 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.


A copy of the permit is available on the Internet at: http://www.in.gov/ai/appfiles/idem-caats/. A copy of the application and permit is also available via IDEM’s Virtual File Cabinet (VFC). To access 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. 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/.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5.

If you have any questions regarding this matter, please contact Tamara Havics, 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) 232-8219 or (800) 451-6027, and ask for Tamara Havics or (317) 232-8219.

Sincerely,

Ghassan Shalabi, Section Chief
Permits Branch
Office of Air Quality

Attachments: Revised permit and Technical Support Document.

cc: File - Clay County
Clay County Health Department
U.S. EPA, Region 5
Compliance and Enforcement Branch
Federally Enforceable State Operating Permit
Renewal
OFFICE OF AIR QUALITY

PPG Industries, Inc.
2831 East Industrial Park Drive
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.

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.: F021-34170-00062
Master Agency Interest ID.: 15414
Original signed by:
Tripurari P. Sinha, Ph. D., Section Chief
Permits Branch, Office of Air Quality

Issuance Date: November 13, 2014
Expiration Date: November 13, 2024

Administrative Amendment No.: 021-37315-00062, issued on July 18, 2016.
Significant Permit Revision No.: 021-38567-00062, issued on December 15, 2017.
Significant Permit Revision No.: 021-39741-00062, issued on July 5, 2018.

Issued by:

Ghassan Shalabi, Section Chief
Permits Branch
Office of Air Quality

Expiration Date: November 13, 2024
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Attachment A: National Emission Standards for Hazardous Air Pollutants for Area Sources: Paints and Allied Products Manufacturing [40 CFR Part 63, Subpart CCCCCCCC]
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 East Industrial Park Drive, 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 lb/hr, with particulate emissions from filling operations controlled by baghouse, BHN, exhausting inside.

[This is an affected source under 40 CFR 63 Subpart CCCCCC.]

(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;
(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.

[PCB is an affected facility under 40 CFR 63 Subpart CCCCCC.]

(d) One (1) metallic bonding operation, approved in 2021 for construction, 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.

[This is an affected source under 40 CFR 63 Subpart CCCCCC.]

(e) One (1) metallic bonding operation, approved in 2021 for construction, 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.
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.

[This is an affected source under 40 CFR 63 Subpart CCCCCCC.]

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:

(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) 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.

(c) Seven (7) natural gas-fired ovens, identified as ovens H1 through H7, constructed in 2002, each with a maximum heat input capacity of 0.35 MMBtu/hr.

(d) Paved roads.

(e) One (1) Research and Development Laboratory.

(f) One (1) Quality Assurance Laboratory.

(g) Quality control and technical lab activities, including:

(1) Vented lab hoods, constructed in 2003;

(2) Sample ovens, with a total heat input capacity if 0.05 MMBtu per hour, constructed in 2003;

(3) Fourteen (14) electrostatic powder coating booths used to coat sample pieces, 11 constructed in 2003, 2 constructed in 2007, and 1 constructed in 2018.

(h) A maintenance area for welding and hot work utilizing handheld tools, exhausted to maintenance ventilation equipped with dry filters, and exhausting to Stack M1.

(i) 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.

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, 021-39741-00062, 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(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).

The Permittee shall implement the PMPs.

(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
(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 021-39741-00062 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 V
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

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

(5) The Permittee maintains records on-site, on a rolling five (5) year basis, which document all such changes and emission trades that are subject to 326 IAC 2-8-15(b)(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 Stack Height [326 IAC 1-7]
The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted.

C.8 Asbestos Abatement Projects [326 IAC 14-10][326 IAC 18][40 CFR 61, Subpart M]
(a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.

(b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:

1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or

2) If there is a change in the following:

   A) Asbestos removal or demolition start date;

   B) Removal or demolition contractor; or

   C) Waste disposal site.

(c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(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.9 Performance Testing  [326 IAC 3-6]

(a) For performance testing required by this permit, a test protocol, except as provided elsewhere in this permit, shall be submitted to:

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

no later than thirty-five (35) days prior to the intended test date. 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.10 Compliance Requirements [326 IAC 2-1.1-11]

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements by issuing an order under 326 IAC 2-1.1-11. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.

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

C.11 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.12 Instrument Specifications [326 IAC 2-1.1-11][326 IAC 2-8-4(3)][326 IAC 2-8-5(1)]

(a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale. 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.13 Risk Management Plan [326 IAC 2-8-4][40 CFR 68]

If a regulated substance, as defined in 40 CFR 68, is present at a source in more than a threshold quantity, the Permittee must comply with the applicable requirements of 40 CFR 68.
C.14 Response to Excursions or Exceedances [326 IAC 2-8-4][326 IAC 2-8-5]

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

(a) The Permittee shall take reasonable response steps to restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing excess emissions.

(b) The response shall include minimizing the period of any startup, shutdown or malfunction. The response may include, but is not limited to, the following:

(1) initial inspection and evaluation;

(2) recording that operations returned or are returning to normal without operator action (such as through response by a computerized distribution control system); or

(3) any necessary follow-up actions to return operation to normal or usual manner of operation.

(c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:

(1) monitoring results;

(2) review of operation and maintenance procedures and records; and/or

(3) inspection of the control device, associated capture system, and the process.

(d) Failure to take reasonable response steps shall be considered a deviation from the permit.

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

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

(a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall submit a description of its response actions to IDEM, OAQ no later than seventy-five (75) days after the date of the test.

(b) A retest to demonstrate compliance shall be performed no later than one hundred eighty (180) days after the date of the test. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred eighty (180) days is not practicable, IDEM, OAQ may extend the retesting deadline.

(c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The response action documents submitted pursuant to this condition do require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an “authorized individual” as defined by 326 IAC 2-1.1-1(1).
Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

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

(a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. Support information includes the following, where applicable:

   (AA) All calibration and maintenance records.
   (BB) All original strip chart recordings for continuous monitoring instrumentation.
   (CC) Copies of all reports required by the FESOP.

Records of required monitoring information include the following, where applicable:

   (AA) The date, place, as defined in this permit, and time of sampling or measurements.
   (BB) The dates analyses were performed.
   (CC) The company or entity that performed the analyses.
   (DD) The analytical techniques or methods used.
   (EE) The results of such analyses.
   (FF) The operating conditions as existing at the time of sampling or measurement.

These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

(b) Unless otherwise specified in this permit, for all record keeping requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or the date of initial start-up, whichever is later, to begin such record keeping.

C.17 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]

(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.18 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 lb/hr, with particulate emissions from filling operations controlled by baghouse, BHN, exhausting inside;

[This is an affected source under 40 CFR 63 Subpart CCCCCC.]

(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;

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

[Under 40 CFR 63, Subpart CCCCCC, these are affected sources.]

(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, PCB is 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, 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.

(This is an affected source under 40 CFR 63 Subpart CCCCCC.)

(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, 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.

(This is an affected source under 40 CFR 63 Subpart CCCCCC.)

(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 source shall comply with the following limits:

<table>
<thead>
<tr>
<th>Emission Units</th>
<th>PM (lbs/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mixers and Extrusion Operations at SB-1 through SB-3, Line 1 through Line 5, MBM, and PCB</td>
<td>5.54 (total)</td>
</tr>
<tr>
<td>SB-1 mill</td>
<td>0.60</td>
</tr>
<tr>
<td>SB-2 mill</td>
<td>0.60</td>
</tr>
<tr>
<td>SB-3 mill</td>
<td>0.60</td>
</tr>
<tr>
<td>Line 1 mill</td>
<td>0.60</td>
</tr>
<tr>
<td>Line 2 mill</td>
<td>0.60</td>
</tr>
<tr>
<td>Line 3 mill</td>
<td>0.60</td>
</tr>
<tr>
<td>Line 4 mill</td>
<td>0.60</td>
</tr>
<tr>
<td>Line 5 mill</td>
<td>0.60</td>
</tr>
<tr>
<td>DC-713: Bonding Lines 1 and 2</td>
<td>0.99</td>
</tr>
</tbody>
</table>

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 two-hundred fifty (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:

<table>
<thead>
<tr>
<th>Emission Units</th>
<th>PM10 (lbs/hr)</th>
<th>PM2.5 (lbs/hr)</th>
<th>Combined HAPs (lbs/hr)</th>
<th>Single HAP (lbs/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mixers and Extrusion Operations at SB-1-SB-3, Line 1-Line 5, MBM, PCB</td>
<td>5.54 (total)</td>
<td>5.54 (total)</td>
<td>1.66 (total)</td>
<td>0.51 (total)</td>
</tr>
<tr>
<td>SB-1 mill</td>
<td>0.60</td>
<td>0.60</td>
<td>0.18</td>
<td>0.06</td>
</tr>
<tr>
<td>SB-2 mill</td>
<td>0.60</td>
<td>0.60</td>
<td>0.18</td>
<td>0.06</td>
</tr>
<tr>
<td>SB-3 mill</td>
<td>0.60</td>
<td>0.60</td>
<td>0.18</td>
<td>0.06</td>
</tr>
<tr>
<td>Line 1 mill</td>
<td>0.60</td>
<td>0.60</td>
<td>0.18</td>
<td>0.06</td>
</tr>
<tr>
<td>Line 2 mill</td>
<td>0.60</td>
<td>0.60</td>
<td>0.18</td>
<td>0.06</td>
</tr>
<tr>
<td>Line 3 mill</td>
<td>0.60</td>
<td>0.60</td>
<td>0.18</td>
<td>0.06</td>
</tr>
<tr>
<td>Line 4 mill</td>
<td>0.60</td>
<td>0.60</td>
<td>0.18</td>
<td>0.06</td>
</tr>
<tr>
<td>Line 5 mill</td>
<td>0.60</td>
<td>0.60</td>
<td>0.18</td>
<td>0.06</td>
</tr>
<tr>
<td>DC-713: Bonding Lines 1 and 2</td>
<td>0.99</td>
<td>0.99</td>
<td>0.10</td>
<td>0.30</td>
</tr>
</tbody>
</table>

Compliance with these limits, combined with the potential to emit PM\textsubscript{10} and PM\textsubscript{2.5} from all other emission units at this source, shall limit the source-wide total potential to emit PM\textsubscript{10} and PM\textsubscript{2.5} to less than one-hundred (100) tons per twelve (12) consecutive month period, and shall render the requirements of 326 IAC 2-7 (Part 70 Permits) and 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)), not applicable.

Compliance with these limits, combined with the potential to emit HAPs from all other emission units at this source, shall limit the source-wide total potential to emit of any single HAP to less
than ten (10) tons per twelve (12) consecutive month period, total HAPs to less than twenty-five (25) tons per twelve (12) consecutive month period, and shall render the requirements of 326 IAC 2-7 (Part 70 Permits) and 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP) not applicable, and this source an area source of HAP emissions under Section 112 of the Clean Air Act (CAA).

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:

<table>
<thead>
<tr>
<th>Process</th>
<th>Process Weight Rate (tons/hr)</th>
<th>Allowable Particulate Emission Rate (326 IAC 6-3-2) (lb/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SB-1 mixer and feed auger</td>
<td>0.12</td>
<td>0.99</td>
</tr>
<tr>
<td>mill</td>
<td>0.12</td>
<td>0.99</td>
</tr>
<tr>
<td>SB-2 mixer and feed auger</td>
<td>0.12</td>
<td>0.99</td>
</tr>
<tr>
<td>mill</td>
<td>0.12</td>
<td>0.99</td>
</tr>
<tr>
<td>SB-3 mixer and feed auger</td>
<td>0.26</td>
<td>1.66</td>
</tr>
<tr>
<td>mill</td>
<td>0.26</td>
<td>1.66</td>
</tr>
<tr>
<td>Line 1 mixer and feed auger</td>
<td>1.05</td>
<td>4.24</td>
</tr>
<tr>
<td>mill</td>
<td>1.05</td>
<td>4.24</td>
</tr>
<tr>
<td>Line 2 mixer and feed auger</td>
<td>0.9</td>
<td>3.82</td>
</tr>
<tr>
<td>mill</td>
<td>0.9</td>
<td>3.82</td>
</tr>
<tr>
<td>Line 3 mixer and feed auger</td>
<td>2.05</td>
<td>6.63</td>
</tr>
<tr>
<td>mill</td>
<td>2.05</td>
<td>6.63</td>
</tr>
<tr>
<td>Line 4 mixer and feed auger</td>
<td>1.5</td>
<td>5.38</td>
</tr>
<tr>
<td>mill</td>
<td>1.5</td>
<td>5.38</td>
</tr>
<tr>
<td>Line 5 mixer and feed auger</td>
<td>1.05</td>
<td>4.24</td>
</tr>
<tr>
<td>mill</td>
<td>1.05</td>
<td>4.24</td>
</tr>
<tr>
<td>PCB</td>
<td>0.38</td>
<td>2.14</td>
</tr>
<tr>
<td>MBM</td>
<td>2.05</td>
<td>6.63</td>
</tr>
<tr>
<td>DC-713: Bonding Line 1</td>
<td>1.68</td>
<td>6.71</td>
</tr>
<tr>
<td>DC-713: Bonding Line 2</td>
<td>0.84</td>
<td>3.35</td>
</tr>
</tbody>
</table>

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:

\[ E = 4.10 P^{0.67} \]

where \( E \) = rate of emission in pounds per hour and \( P \) = 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 Lines 1 and 2, and 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][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 and DC-713, used in conjunction with the powder coating manufacturing operation and metallic bonding operations, 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
The 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)][326 IAC 2-8-16]

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 coating

Records 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:**

(a) 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.

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

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

<table>
<thead>
<tr>
<th>Particulate [326 IAC 6-2-4]</th>
<th>Preventive Maintenance Plan [326 IAC 2-8-4(9)]</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
<td>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.</td>
</tr>
</tbody>
</table>
SECTION E.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 lb/hr, with particulate emissions from filling operations controlled by baghouse, BHN, exhausting inside;

[This is an affected source under 40 CFR 63 Subpart CCCCCCCC.]

(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;

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

[Under 40 CFR 63, Subpart CCCCCCCC, these are affected sources.]

(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;

[PCB is an affected facility under 40 CFR 63 Subpart CCCCCCCC].

(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, 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.

[This is an affected source under 40 CFR 63 Subpart CCCC.]

(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, 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.

[This is an affected source under 40 CFR 63 Subpart CCCC.]

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


(a) Pursuant to 40 CFR 63. 63.11169, the Permittee shall comply with the provisions of 40 CFR Part 63 Subpart A - General Provisions, which are incorporated by reference as 326 IAC 12-1 for the National Emission Standards for Hazardous Air Pollutants for Area Sources: Paints and Allied Products Manufacturing except as otherwise specified in 40 CFR Part 63, Subpart CCCCCC.

(b) Pursuant to 40 CFR 60.10, the Permittee shall submit all required notifications and reports to:

Indiana Department of Environmental Management
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 sources 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 Industries, Inc.
Source Address: 2831 East Industrial Park Drive, Brazil, Indiana 47834
FESOP Permit No.: F021-34170-00062

<table>
<thead>
<tr>
<th>Document Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Annual Compliance</td>
<td>Certification Letter</td>
</tr>
<tr>
<td>Test Result</td>
<td>(specify)</td>
</tr>
<tr>
<td>Report</td>
<td>(specify)</td>
</tr>
<tr>
<td>Notification</td>
<td>(specify)</td>
</tr>
<tr>
<td>Affidavit</td>
<td>(specify)</td>
</tr>
<tr>
<td>Other</td>
<td>(specify)</td>
</tr>
</tbody>
</table>

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

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

Signature: ____________________________
Printed Name: ____________________________
Title/Position: ____________________________
Date: ____________________________
**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)**

**EMERGENCY OCCURRENCE REPORT**

Source Name: PPG Industries, Inc.
Source Address: 2831 East Industrial Park Drive, Brazil, Indiana 47834
FESOP Permit No.: F021-34170-00062

This form consists of 2 pages

---

☐ This is an emergency as defined in 326 IAC 2-7-1(12)
- The Permittee must notify the Office of Air Quality (OAQ), no later than 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 no later than two (2) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16

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

<table>
<thead>
<tr>
<th>Facility/Equipment/Operation:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control Equipment:</td>
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<tr>
<td>Permit Condition or Operation Limitation in Permit:</td>
</tr>
<tr>
<td>Description of the Emergency:</td>
</tr>
<tr>
<td>Describe the cause of the Emergency:</td>
</tr>
</tbody>
</table>
If any of the following are not applicable, mark N/A

<table>
<thead>
<tr>
<th>Date/Time Emergency started:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date/Time Emergency was corrected:</td>
</tr>
<tr>
<td>Was the facility being properly operated at the time of the emergency?</td>
</tr>
<tr>
<td>Describe:</td>
</tr>
<tr>
<td>Type of Pollutants Emitted: TSP, PM-10, SO2, VOC, NOx, CO, Pb, other:</td>
</tr>
<tr>
<td>Estimated amount of pollutant(s) emitted during emergency:</td>
</tr>
<tr>
<td>Describe the steps taken to mitigate the problem:</td>
</tr>
<tr>
<td>Describe the corrective actions/response steps taken:</td>
</tr>
<tr>
<td>Describe the measures taken to minimize emissions:</td>
</tr>
<tr>
<td>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:</td>
</tr>
</tbody>
</table>

Form Completed by: ________________________________
Title / Position: ________________________________
Date: ________________________________
Phone: ________________________________
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".

☐ NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

☐ THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD

<table>
<thead>
<tr>
<th>Permit Requirement (specify permit condition #)</th>
<th>Date of Deviation:</th>
<th>Duration of Deviation:</th>
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<tr>
<td>Number of Deviations:</td>
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<td></td>
</tr>
<tr>
<td>Probable Cause of Deviation:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Response Steps Taken:</td>
<td></td>
<td></td>
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<tr>
<td>Response Steps Taken:</td>
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<td></td>
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<tr>
<td>Permit Requirement (specify permit condition #)</td>
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<tr>
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<td>Response Steps Taken:</td>
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<tr>
<td>Response Steps Taken:</td>
</tr>
</tbody>
</table>

Form Completed by: ________________________________
Title / Position: ________________________________
Date: ________________________________
Phone: ________________________________
Indiana Department of Environmental Management
Office of Air Quality

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

Source Description and Location

<table>
<thead>
<tr>
<th>Source Name:</th>
<th>PPG Industries, Inc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Source Location:</td>
<td>2831 E. Industrial Park Dr., Brazil, Indiana 47834</td>
</tr>
<tr>
<td>County:</td>
<td>Clay</td>
</tr>
<tr>
<td>SIC Code:</td>
<td>2851 (Paints, Varnishes, Lacquers, Enamels, and Allied Products)</td>
</tr>
<tr>
<td>Operation Permit No.:</td>
<td>F021-34170-00062</td>
</tr>
<tr>
<td>Operation Permit Issuance Date:</td>
<td>November 13, 2014</td>
</tr>
<tr>
<td>Significant Permit Revision No.:</td>
<td>021-44015-00062</td>
</tr>
<tr>
<td>Permit Reviewer:</td>
<td>Tamara Havics</td>
</tr>
</tbody>
</table>

Existing Approvals

The source was issued FESOP Renewal No. F021-34170-00062 on November 13, 2014. The source has since received the following approvals:

(a) Administrative Amendment No.: 021-37315-00062, issued on July 18, 2016;
(b) Significant Permit Revision No.: 021-38567-00062, issued on December 15, 2017; and
(c) Significant Permit Revision No.: 021-39741-00062, issued on July 5, 2018.

County Attainment Status

The source is located in Clay County.

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>SO₂</td>
<td>Better than national standards.</td>
</tr>
<tr>
<td>CO</td>
<td>Unclassifiable or attainment effective November 15, 1990.</td>
</tr>
<tr>
<td>O₃</td>
<td>Unclassifiable or attainment effective January 16, 2018, for the 2015 8-hour ozone standard.</td>
</tr>
<tr>
<td>PM₂₅</td>
<td>Unclassifiable or attainment effective April 15, 2015, for the 2012 annual PM₂₅ standard.</td>
</tr>
<tr>
<td>PM₂₅</td>
<td>Unclassifiable or attainment effective December 13, 2009, for the 2006 24-hour PM₂₅ standard.</td>
</tr>
<tr>
<td>PM₁₀</td>
<td>Unclassifiable effective November 15, 1990.</td>
</tr>
<tr>
<td>NO₂</td>
<td>Unclassifiable or attainment effective January 29, 2012, for the 2010 NO₂ standard.</td>
</tr>
<tr>
<td>Pb</td>
<td>Unclassifiable or attainment effective December 31, 2011, for the 2008 lead standard.</td>
</tr>
</tbody>
</table>

(a) Ozone Standards
Volatile organic compounds (VOC) and Nitrogen Oxides (NOₓ) 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 NOₓ 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 NOₓ emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(b) PM₂₅
Clay County has been classified as attainment for PM₂₅. Therefore, direct PM₂₅, SO₂, and NOₓ emissions were reviewed pursuant to the requirements for 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.
Source Status - Existing Source

The table below summarizes the potential to emit of the entire source, prior to the proposed revision, after consideration of all enforceable limits established in the effective permits. 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.

| Source-Wide Emissions Prior to Revision (ton/year) |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|                  | PM\(^1\)        | PM\(^{10}\)     | PM\(^{2.5}\)    | SO\(_2\)        | NO\(_x\)        | VOC             | CO              | Single HAP\(^3\)| Total HAPs      |
| Total PTE of Entire Source Excluding Fugitive Emissions\(^*\) | 88.21 | 88.38 | 88.38 | 0.02 | 3.02 | 5.97 | 2.54 | 8.25 | 24.89 |
| Title V Major Source Thresholds | NA | 100 | 100 | 100 | 100 | 100 | 10 | 10 | 25 |
| PSD Major Source Thresholds | 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.

(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 existing 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.

(c) These emissions are based on the TSD of Significant Permit Revision No. 021-39741-00062, issued on July 5, 2018.

Description of Proposed Revision

The Office of Air Quality (OAQ) has reviewed an application, submitted by PPG Industries, Inc. on April 26, 2021, relating to the proposed construction of two (2) metallic bonding operations, one electric bake oven for cleaning of powder screws, and an insignificant maintenance area. A bonding process emission unit had been approved for construction in Significant Permit Revision No.: 021-39741-00062, issued on July 5, 2018, however, it was never constructed and is now being removed from the permit along with eight (8) batch process powder coating manufacturing lines, a powder coating rescreening operation, identified as RES, and a powder coating tote tumbling operation, identified as TOT.

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

(a) One (1) metallic bonding operation, approved in 2021 for construction, 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 CCCCCCCC, this is an affected source]

(b) One (1) metallic bonding operation, approved in 2021 for construction, 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.

[Under 40 CFR 63, Subpart CCCCCCCC, this is an affected source]

(c) A maintenance area for welding and hot work utilizing handheld tools, exhausted to maintenance ventilation equipped with dry filters, and exhausting to Stack M1.

(d) 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.

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

(a) 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;

<table>
<thead>
<tr>
<th>ID</th>
<th>Batch Size</th>
<th>Maximum Capacity (lbs of powder coating/hr)</th>
<th>Limiting Process</th>
<th>Mixer and Feeder Auger Baghouse ID</th>
<th>Mill Baghouse ID</th>
<th>Mill Exhaust</th>
<th>Construction Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>SB-4</td>
<td>Small</td>
<td>750</td>
<td>Airflow</td>
<td>BHS Stack</td>
<td>BH9 and BHS</td>
<td>Stack</td>
<td>Approved in 2018</td>
</tr>
<tr>
<td>SB-5</td>
<td>Small</td>
<td>750</td>
<td>Airflow</td>
<td>BHS Stack</td>
<td>BH10 and BHS</td>
<td>Stack</td>
<td>Approved in 2018</td>
</tr>
<tr>
<td>SB-6</td>
<td>Small</td>
<td>750</td>
<td>Mill</td>
<td>BHS Stack</td>
<td>BH11 and BHS</td>
<td>Stack</td>
<td>Approved in 2018</td>
</tr>
<tr>
<td>Line 6</td>
<td>Medium</td>
<td>2,300</td>
<td>Extruder</td>
<td>BHS Stack</td>
<td>BH12 and BHS</td>
<td>Stack</td>
<td>Approved in 2018</td>
</tr>
<tr>
<td>Line 7</td>
<td>Medium</td>
<td>2,300</td>
<td>Extruder</td>
<td>BHS Stack</td>
<td>BH13 and BHS</td>
<td>Stack</td>
<td>Approved in 2018</td>
</tr>
<tr>
<td>Line 8</td>
<td>Medium</td>
<td>2,300</td>
<td>Mill</td>
<td>BHS Stack</td>
<td>BH14 and BHS</td>
<td>Stack</td>
<td>Approved in 2018</td>
</tr>
<tr>
<td>Line 9</td>
<td>Large</td>
<td>4,000</td>
<td>Airflow</td>
<td>BHS Stack</td>
<td>BH15 and BHS</td>
<td>Stack</td>
<td>Approved in 2018</td>
</tr>
<tr>
<td>Line 10</td>
<td>Large</td>
<td>4,000</td>
<td>Extruder</td>
<td>BHS Stack</td>
<td>BH16 and BHS</td>
<td>Stack</td>
<td>Approved in 2018</td>
</tr>
</tbody>
</table>

[Under 40 CFR 63, Subpart CCCCCCC, these are affected sources.]

(b) One (1) powder coating rescreening operation, identified as RES, approved in 2018 for construction, with a maximum capacity of 2,000 pounds of powder coating per hour, using baghouse BHS for particulate control, and exhausting to the atmosphere.

[Under 40 CFR 63, Subpart CCCCCCC, this is an affected source]

(c) One (1) powder coating tote tumbling operation, identified as TOT, approved in 2018 for construction, with a maximum capacity of 2,000 pounds of powder coating per hour, using baghouse BHS for particulate control, and exhausting to the atmosphere.

[Under 40 CFR 63, Subpart CCCCCCC, this is an affected source]

(d) One (1) metallic bonding operation, approved in 2018 for construction, with a maximum capacity of 3,000 pounds of powder per hour, using baghouse BH18 for particulate control, and exhausting inside, consisting of:

(1) Two (2) powder coating bonding mixers; and
(2) One (1) weighing station.

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**Enforcement Issues**

There are no pending enforcement actions related to this revision.

**Emission Calculations**

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

**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.

<table>
<thead>
<tr>
<th>Process / Emission Unit</th>
<th>PM</th>
<th>PM$_{10}$</th>
<th>PM$_{2.5}$$^1$</th>
<th>SO$_{2}$</th>
<th>NO$_{X}$</th>
<th>VOC</th>
<th>CO</th>
<th>Single HAP$^2$</th>
<th>Total HAPs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bonding Line 1</td>
<td>146.91</td>
<td>146.91</td>
<td>146.91</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>14.69</td>
<td>44.07</td>
</tr>
<tr>
<td>Bonding Line 2</td>
<td>73.45</td>
<td>73.45</td>
<td>73.45</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>7.35</td>
<td>22.04</td>
</tr>
<tr>
<td>Bake Oven</td>
<td>0.52</td>
<td>0.52</td>
<td>0.52</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>0.05</td>
<td>0.16</td>
</tr>
<tr>
<td><strong>Total PTE Before Controls of the New Emission Units:</strong></td>
<td>220.88</td>
<td>220.88</td>
<td>220.88</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td><strong>22.09</strong></td>
<td><strong>66.26</strong></td>
</tr>
</tbody>
</table>

$^1$PM$_{2.5}$ listed is direct PM$_{2.5}$.

$^2$Single highest HAP.

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 PM, PM$_{10}$, 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 adding FESOP, HAP, and PSD minor limits.

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

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

<table>
<thead>
<tr>
<th>Source-Wide Emissions After Issuance (ton/year)</th>
<th>PM¹</th>
<th>PM₁₀¹</th>
<th>PM₂,₅¹,₂</th>
<th>SO₂</th>
<th>NOₓ</th>
<th>VOC</th>
<th>CO</th>
<th>Single HAP³</th>
<th>Total HAPs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total PTE of Entire Source Excluding Fugitive Emissions*</td>
<td>54.53</td>
<td>54.70</td>
<td>54.70</td>
<td>0.02</td>
<td>3.02</td>
<td>5.93</td>
<td>2.54</td>
<td>5.14</td>
<td>15.57</td>
</tr>
<tr>
<td>Title V Major Source Thresholds</td>
<td>NA</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>10</td>
<td>25</td>
</tr>
<tr>
<td>PSD Major Source Thresholds</td>
<td>250</td>
<td>250</td>
<td>250</td>
<td>250</td>
<td>250</td>
<td>250</td>
<td>250</td>
<td>--</td>
<td>--</td>
</tr>
</tbody>
</table>

1Under the Part 70 Permit program (40 CFR 70), PM₁₀ and PM₂,₅, not particulate matter (PM), are each considered as a "regulated air pollutant."

2PM₂,₅ listed is direct PM₂,₅.

3Single 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 potential to emit of the entire source after issuance.

The source opted to take PM, PM₁₀, or direct PM₂,₅ and HAP limits in order to render the requirements of 326 IAC 2-7 (Part 70 Permits) and 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 2-2 (PSD), 326 IAC 2-8 (FESOP) for more information regarding the limits.

(a) This existing Title V minor stationary source will continue to be minor under 326 IAC 2-7, because the potential to emit regulated air pollutants and HAPs from the entire source will continue to be less than or limited to less than the Title V major source threshold levels. Therefore, the source is subject to the provisions of 326 IAC 2-8 (FESOP) and is an area source under Section 112 of the Clean Air Act (CAA).

(b) This existing minor PSD stationary source will continue to be minor under 326 IAC 2-2, because the potential to emit of all PSD regulated pollutants from the entire source will continue to be less than or limited to less than the PSD major source thresholds. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

### Federal Rule Applicability Determination

Due to the proposed revision, federal rule applicability has been reviewed as follows:

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

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

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

(a) Bonding lines 1 and 2 are 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 units can process, use, or generate materials containing HAP, as defined in 40 CFR 63.11607. The units subject to this rule includes the following:

- 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, 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, approved in 2021 for construction, 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.

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

1) 40 CFR 63.11599 (a), (b)
2) 40 CFR 63.11600 (a)
3) 40 CFR 63.11601
4) 40 CFR 63.11602 (testing)
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 60, Subpart A – General Provisions, which are incorporated as 326 IAC 12-1, apply to the units except as otherwise specified in 40 CFR 60, Subpart CCCCCC.

(b) The requirements of the National Emission Standards for Hazardous Air Pollutants for Chemical Manufacturing Area Sources, 40 CFR 63.11494, Subpart VVWWV, are not included for this
proposed revision, because this source is subject to the requirements 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, Subpart BBBBBBB, are not included for this proposed revision, because this source is subject to the requirements 40 CFR 63, Subpart CCCCCC.

(d) There are no National Emission Standards for Hazardous Air Pollutants under 40 CFR 63, 326 IAC 14 and 326 IAC 20 included for this proposed revision.

Compliance Assurance Monitoring (CAM):

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

<table>
<thead>
<tr>
<th>State Rule Applicability - Entire Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Due to this revision, state rule applicability has been reviewed as follows:</td>
</tr>
</tbody>
</table>

326 IAC 2-2 (PSD)
PSD applicability is discussed under the PTE of the Entire Source After Issuance of the FESOP Revision section of this document.

PSD Minor Source Limit(s)
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:

<table>
<thead>
<tr>
<th>Emission Units</th>
<th>PM (lbs/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bonding Lines 1 and 2</td>
<td>0.99</td>
</tr>
</tbody>
</table>

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

326 IAC 2-8-4 (FESOP)
FESOP applicability is discussed under the PTE of the Entire Source After Issuance of the FESOP Revision section of this document.

FESOP PM10 and PM2.5 Limits
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:

<table>
<thead>
<tr>
<th>Emission Units</th>
<th>PM10 (lbs/hr)</th>
<th>PM2.5 (lbs/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bonding Lines 1 and 2</td>
<td>0.99</td>
<td>0.99</td>
</tr>
</tbody>
</table>
Compliance with these limits, combined with the potential to emit PM\textsubscript{10} and PM\textsubscript{2.5} from all other emission units at this source, shall limit the source-wide total potential to emit of PM\textsubscript{10} and PM\textsubscript{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 Limits**

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:

<table>
<thead>
<tr>
<th>Emission Units</th>
<th>Combined HAPs (lbs/hr)</th>
<th>Single HAP (lbs/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bonding Lines 1 and 2</td>
<td>0.10</td>
<td>0.30</td>
</tr>
</tbody>
</table>

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

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

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

1. Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

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

**326 IAC 6-4 (Fugitive Dust Emissions Limitations)**

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

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

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

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

Pursuant to 326 IAC 6.5-1-1(a), this source (located in 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.
Due to the proposed revision, state rule applicability has been reviewed as follows:

### 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:

\[ E = 4.10 P^{0.67} \]

where

\[
\begin{align*}
E & = \text{rate of emission in pounds per hour} \\
P & = \text{process weight rate in tons per hour}
\end{align*}
\]

### Summary of Process Weight Rate Limits

<table>
<thead>
<tr>
<th>Process / Emission Unit</th>
<th>P (ton/hr)</th>
<th>E (lb/hr)</th>
<th>Uncontrolled PM Emissions (lb/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bonding Line 1</td>
<td>1.68</td>
<td>5.80</td>
<td>6.71</td>
</tr>
<tr>
<td>Bonding Line 2</td>
<td>0.84</td>
<td>3.64</td>
<td>3.35</td>
</tr>
</tbody>
</table>

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

Based on calculations, Baghouse DC-713 is not needed to comply with the Bonding Line 2 limit.
Compliance Determination and Monitoring Requirements

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

Testing Requirements:

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Control Device</th>
<th>Timeframe for Testing</th>
<th>Pollutant/Parameter</th>
<th>Frequency of Testing</th>
<th>Authority</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bonding Line 1 and Bonding Line 2</td>
<td>Baghouse DC-713</td>
<td>180°</td>
<td><strong>PM, PM10, PM2.5</strong></td>
<td>every 5 years</td>
<td>326 IAC 2-2 326 IAC 2-4.1 326 IAC 6-3-2</td>
</tr>
</tbody>
</table>

* Not later than 180 days after startup of the emission units.

** 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 proposed revision are as follows:

<table>
<thead>
<tr>
<th>Control Device</th>
<th>Type of Parametric Monitoring</th>
<th>Frequency</th>
<th>Range or Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baghouse DC-713</td>
<td>Pressure drop monitoring</td>
<td>Daily</td>
<td>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</td>
</tr>
</tbody>
</table>

These monitoring conditions are necessary, because Baghouse DC-713 for the Bonding Line 1 and Bonding Line 2 must operate properly to assure compliance with 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

The following changes listed below are due to the proposed revision. Deleted language appears as strikethrough text and new language appears as **bold** text:

- The eight (8) batch process powder coating manufacturing lines, approved in 2018 for construction, have been removed from the permit in Sections A.2, D.1, and E.1. The units will not be constructed.

- The powder coating rescreening operation, identified as RES, the powder coating tote tumbling operation, identified as TOT, and the metallic bonding operation, all approved in 2018 for construction, were removed from the permit in Sections A.2, D.1, and E.1, as applicable. The units will not be constructed as permitted.

- Two (2) new metallic bonding operations, identified as Bond Line 1 and Bond Line 2 were added to the permit in Sections A.2, D.1, and E.1.

- A new maintenance area for welding and hot work and one (1) new Electric Bake oven were added to the permit in Section A.3.

- For the new bonding operations: FESOP, and PSD and HAP minor limits were added to Conditions D.1.1 and D.1.2. Limits for 326 IAC 6-3-2 were added in Condition D.1.3. Testing requirements were added to Condition D.1.5(c). The corresponding Compliance Determination, Monitoring, and Record Keeping requirements were added. The permit conditions were renumbered as needed.
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:

(b) **Sixteen-Eight (816)** batch process powder coating manufacturing lines, each consisting of:
    - One (1) mixer including batch weighing, charging, manual filling, and closed lid mixing, particulate emissions from filling are controlled by a baghouse;
    - One (1) mixer hopper;
    - One (1) feeder auger, with particulate emissions controlled by a baghouse;
    - One (1) extruder;
    - One (1) chiller conveyor;
    - One (1) chipper;
    - One (1) mill including an internal sifting system, and a product control cyclone with particulate emissions controlled by a baghouse;

<table>
<thead>
<tr>
<th>ID</th>
<th>Batch Size</th>
<th>Maximum Capacity (lbs of powder coating/hr)</th>
<th>Limiting Process</th>
<th>Mixer and Feeder Auger Baghouse ID</th>
<th>Mill Baghouse Exhaust</th>
<th>Mill Exhaust</th>
<th>Construction Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>SB-1</td>
<td>Small</td>
<td>240</td>
<td>Airflow</td>
<td>BHN</td>
<td>Inside</td>
<td>BH1</td>
<td>Stack 1 2002</td>
</tr>
<tr>
<td>SB-2</td>
<td>Small</td>
<td>240</td>
<td>Airflow</td>
<td>BHN</td>
<td>Inside</td>
<td>BH2</td>
<td>Stack 2 2002</td>
</tr>
<tr>
<td>SB-3</td>
<td>Small</td>
<td>520</td>
<td>Mill</td>
<td>BHN</td>
<td>Inside</td>
<td>BH3</td>
<td>Stack 3 2011</td>
</tr>
<tr>
<td>SB-4</td>
<td>Small</td>
<td>750</td>
<td>Airflow</td>
<td>BHS</td>
<td>Stack BH6 and BH5</td>
<td>Stack</td>
<td>Approved in 2018</td>
</tr>
<tr>
<td>SB-5</td>
<td>Small</td>
<td>750</td>
<td>Airflow</td>
<td>BHS</td>
<td>Stack BH10 and BH5</td>
<td>Stack</td>
<td>Approved in 2018</td>
</tr>
<tr>
<td>SB-6</td>
<td>Small</td>
<td>750</td>
<td>Mill</td>
<td>BHS</td>
<td>Stack BH11 and BH5</td>
<td>Stack</td>
<td>Approved in 2018</td>
</tr>
<tr>
<td>Line 1</td>
<td>Medium</td>
<td>2,100</td>
<td>Extruder</td>
<td>BHN</td>
<td>Inside</td>
<td>BH4</td>
<td>Stack 4 2002</td>
</tr>
<tr>
<td>Line 2</td>
<td>Medium</td>
<td>1,800</td>
<td>Mill</td>
<td>BHN</td>
<td>Inside</td>
<td>BH5</td>
<td>Stack 5 2011</td>
</tr>
<tr>
<td>Line 3</td>
<td>Large</td>
<td>4,100</td>
<td>Mill</td>
<td>BHN</td>
<td>Inside</td>
<td>BH6</td>
<td>Stack 6 2011</td>
</tr>
<tr>
<td>Line 4</td>
<td>Medium</td>
<td>3,000</td>
<td>Airflow</td>
<td>BHN</td>
<td>Inside</td>
<td>BH7</td>
<td>Stack 7 2002</td>
</tr>
<tr>
<td>Line 5</td>
<td>Large</td>
<td>2,100</td>
<td>Extruder</td>
<td>BHN</td>
<td>Inside</td>
<td>BH8</td>
<td>Stack 8 2002</td>
</tr>
<tr>
<td>Line 6</td>
<td>Medium</td>
<td>2,300</td>
<td>Extruder</td>
<td>BHS</td>
<td>Stack BH12 and BH5</td>
<td>Stack</td>
<td>Approved in 2018</td>
</tr>
<tr>
<td>Line 7</td>
<td>Medium</td>
<td>2,300</td>
<td>Extruder</td>
<td>BHS</td>
<td>Stack BH13 and BH5</td>
<td>Stack</td>
<td>Approved in 2018</td>
</tr>
<tr>
<td>Line 8</td>
<td>Medium</td>
<td>2,300</td>
<td>Mill</td>
<td>BHS</td>
<td>Stack BH14 and BH5</td>
<td>Stack</td>
<td>Approved in 2018</td>
</tr>
<tr>
<td>Line 9</td>
<td>Large</td>
<td>4,000</td>
<td>Airflow</td>
<td>BHS</td>
<td>Stack BH15 and BH5</td>
<td>Stack</td>
<td>Approved in 2018</td>
</tr>
<tr>
<td>Line 10</td>
<td>Large</td>
<td>4,000</td>
<td>Extruder</td>
<td>BHS</td>
<td>Stack BH16 and BH5</td>
<td>Stack</td>
<td>Approved in 2018</td>
</tr>
</tbody>
</table>

[Under 40 CFR 63, Subpart CCCCCC, these are affected sources.]

(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.

[PCB is an affected facility under 40 CFR 63 Subpart CCCCCC].
(d) One (1) powder coating rescreening operation, identified as RES, approved in 2018 for construction, with a maximum capacity of 2,000 pounds of powder coating per hour, using baghouse BHS for particulate control, and exhausting to the atmosphere.

[Under 40 CFR 63, Subpart C, this is an affected source.]

(e) One (1) powder coating tote tumbling operation, identified as TOT, approved in 2018 for construction, with a maximum capacity of 2,000 pounds of powder coating per hour, using baghouse BHS for particulate control, and exhausting to the atmosphere.

[Under 40 CFR 63, Subpart C, this is an affected source.]

(f) One (1) metallic bonding operation, approved in 2018 for construction, with a maximum capacity of 3,000 pounds of powder per hour, using baghouse BH18 for particulate control, and exhausting to the atmosphere, consisting of:

1. Two (2) powder coating bonding mixers;
2. One (1) weighing station;
3. Two (2) metallic powder unloading operations, dumping bags of metallic powders into enclosed transferring containers, with particulate controlled by wet scrubber DC-714.
4. Enclosed conveying of coating and metallic powders to hopper and enclosed bonding mixer.
5. Loading of mixed powders into an enclosed cooler and from the cooler to enclosed transferring containers, with particulate controlled by baghouse DC-713.
6. Packaging of mixed powders, with particulate controlled by baghouse DC-713.

[Under 40 CFR 63, Subpart C, this is an affected source.]

(d) One (1) metallic bonding operation, approved in 2021 for construction, 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 C, this is an affected source.]

(e) One (1) metallic bonding operation, approved in 2021 for construction, 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.

[Under 40 CFR 63, Subpart CCCCCC, this is an affected source]

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:

(h) A maintenance area for welding and hot work utilizing handheld tools, exhausted to maintenance ventilation equipped with dry filters, and exhausting to Stack M1.

(i) 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.

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 lb/hr, with particulate emissions from filling operations controlled by baghouse, BHN, exhausting inside;

[This is an affected source under 40 CFR 63 Subpart CCCCCC.]

(b) Sixteen Eight (16) 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;
Under 40 CFR 63, Subpart CCCCCC, these are affected sources.

(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;

[PCB is an affected facility under 40 CFR 63 Subpart CCCCCC.]

(d) One (1) powder coating rescreening operation, identified as RES, approved in 2018 for construction, with a maximum capacity of 2,000 pounds of powder coating per hour, using baghouse BHS for particulate control, and exhausting to the atmosphere;

[Under 40 CFR 63, Subpart CCCCCC, this is an affected source.]

(e) One (1) powder coating tote tumbling operation, identified as TOT, approved in 2018 for construction, with a maximum capacity of 2,000 pounds of powder coating per hour, using baghouse BHS for particulate control, and exhausting to the atmosphere;

[Under 40 CFR 63, Subpart CCCCCC, this is an affected source.]

(f) One (1) metallic bonding operation, approved in 2018 for construction, with a maximum capacity of 3,000 pounds of powder per hour, using baghouse BH18 for particulate control, and exhausting to the atmosphere, consisting of:

(1) Two (2) powder coating bonding mixers;
(2) One (1) weighing station;

(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, 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 is an affected source]

(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, 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 is an affected source]

(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 source shall comply with the following limits:

<table>
<thead>
<tr>
<th>Emission Units</th>
<th>PM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mixers and Extrusion Operations at SB-1 through SB-3, Line 1 through Line 5, MBM, and PCB</td>
<td>5.54 (total)</td>
</tr>
<tr>
<td>SB-1 mill</td>
<td>0.60</td>
</tr>
<tr>
<td>SB-2 mill</td>
<td>0.60</td>
</tr>
<tr>
<td>SB-3 mill</td>
<td>0.60</td>
</tr>
<tr>
<td>Line 1 mill</td>
<td>0.60</td>
</tr>
<tr>
<td>Line 2 mill</td>
<td>0.60</td>
</tr>
<tr>
<td>Line 3 mill</td>
<td>0.60</td>
</tr>
<tr>
<td>Line 4 mill</td>
<td>0.60</td>
</tr>
<tr>
<td>Line 5 mill</td>
<td>0.60</td>
</tr>
<tr>
<td>DC-713: Bonding Lines 1 and 2</td>
<td>0.99</td>
</tr>
</tbody>
</table>

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 two-hundred fifty (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.1.24 FESOP, and 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:

In order to render the requirements of 326 IAC 2-7 (Part 70 Permits) and 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable, the source shall comply with the following limits.
Compliance with these limits, combined with the potential to emit PM\(_{10}\) and PM\(_{2.5}\) from all other emission units at this source, shall limit the source-wide total potential to emit PM\(_{10}\) and PM\(_{2.5}\) to less than one-hundred (100) tons per twelve (12) consecutive month period, each, and shall render the requirements of 326 IAC 2-7 (Part 70 Permits) and 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)), not applicable.

Compliance with these limits, combined with the potential to emit HAPs from all other emission units at this source, shall limit the source-wide total potential to emit of any single HAP to less than ten (10) tons per twelve (12) consecutive month period, total HAPs to less than twenty-five (25) tons per twelve (12) consecutive month period, and shall render the requirements of 326 IAC 2-7 (Part 70 Permits) and 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP) not applicable, and this source an area source of HAP emissions under Section 112 of the Clean Air Act (CAA).

Compliance with these limits, combined with the potential to emit PM, PM\(_{10}\), PM\(_{2.5}\) and HAPs potential to emit 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, PM\(_{10}\) and PM\(_{2.5}\), each, to less than 100 tons per twelve (12) consecutive month period, single HAP to less than 10 tons per twelve (12) consecutive month period and combined HAPs to less than 25 tons per twelve (12) consecutive month period, and shall render the requirements of 326 IAC 2-7 (Part 70 Permits) and 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.
## D.1.32 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:

<table>
<thead>
<tr>
<th>Process</th>
<th>Process Weight Rate (tons/hr)</th>
<th>Allowable Particulate Emission Rate (326 IAC 6-3-2) (lb/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SB-1 mixer and feed auger</td>
<td>0.12</td>
<td>0.99</td>
</tr>
<tr>
<td>mill</td>
<td>0.12</td>
<td>0.99</td>
</tr>
<tr>
<td>SB-2 mixer and feed auger</td>
<td>0.12</td>
<td>0.99</td>
</tr>
<tr>
<td>mill</td>
<td>0.12</td>
<td>0.99</td>
</tr>
<tr>
<td>SB-3 mixer and feed auger</td>
<td>0.26</td>
<td>1.66</td>
</tr>
<tr>
<td>mill</td>
<td>0.26</td>
<td>1.66</td>
</tr>
<tr>
<td>SB-4 mixer and feed auger</td>
<td>0.38</td>
<td>2.13</td>
</tr>
<tr>
<td>mill</td>
<td>0.38</td>
<td>2.13</td>
</tr>
<tr>
<td>SB-5 mixer and feed auger</td>
<td>0.38</td>
<td>2.13</td>
</tr>
<tr>
<td>mill</td>
<td>0.38</td>
<td>2.13</td>
</tr>
<tr>
<td>SB-6 mixer and feed auger</td>
<td>0.38</td>
<td>2.13</td>
</tr>
<tr>
<td>mill</td>
<td>0.38</td>
<td>2.13</td>
</tr>
<tr>
<td>Line 1 mixer and feed auger</td>
<td>1.05</td>
<td>4.24</td>
</tr>
<tr>
<td>mill</td>
<td>1.05</td>
<td>4.24</td>
</tr>
<tr>
<td>Line 2 mixer and feed auger</td>
<td>0.9</td>
<td>3.82</td>
</tr>
<tr>
<td>mill</td>
<td>0.9</td>
<td>3.82</td>
</tr>
<tr>
<td>Line 3 mixer and feed auger</td>
<td>2.05</td>
<td>6.63</td>
</tr>
<tr>
<td>mill</td>
<td>2.05</td>
<td>6.63</td>
</tr>
<tr>
<td>Line 4 mixer and feed auger</td>
<td>1.5</td>
<td>5.38</td>
</tr>
<tr>
<td>mill</td>
<td>1.5</td>
<td>5.38</td>
</tr>
<tr>
<td>Line 5 mixer and feed auger</td>
<td>1.05</td>
<td>4.24</td>
</tr>
<tr>
<td>mill</td>
<td>1.05</td>
<td>4.24</td>
</tr>
<tr>
<td>Line 6 mixer and feed auger</td>
<td>1.15</td>
<td>4.50</td>
</tr>
<tr>
<td>mill</td>
<td>1.15</td>
<td>4.50</td>
</tr>
<tr>
<td>Line 7 mixer and feed auger</td>
<td>1.15</td>
<td>4.50</td>
</tr>
<tr>
<td>mill</td>
<td>1.15</td>
<td>4.50</td>
</tr>
<tr>
<td>Line 8 mixer and feed auger</td>
<td>1.15</td>
<td>4.50</td>
</tr>
<tr>
<td>mill</td>
<td>1.15</td>
<td>4.50</td>
</tr>
<tr>
<td>Line 9 mixer and feed auger</td>
<td>2.00</td>
<td>6.52</td>
</tr>
<tr>
<td>mill</td>
<td>2.00</td>
<td>6.52</td>
</tr>
<tr>
<td>Line 10 mixer and feed auger</td>
<td>2.00</td>
<td>6.52</td>
</tr>
<tr>
<td>mill</td>
<td>2.00</td>
<td>6.52</td>
</tr>
<tr>
<td>PCB</td>
<td>0.38</td>
<td>2.14</td>
</tr>
<tr>
<td>MBM</td>
<td>2.05</td>
<td>6.63</td>
</tr>
<tr>
<td>RES</td>
<td>4.00</td>
<td>4.40</td>
</tr>
<tr>
<td>TOT</td>
<td>4.00</td>
<td>4.40</td>
</tr>
<tr>
<td>Bonding Process</td>
<td>1.50</td>
<td>5.38</td>
</tr>
<tr>
<td>DC-713: Bonding Line 1</td>
<td>1.68</td>
<td>6.71</td>
</tr>
<tr>
<td>DC-713: Bonding Line 2</td>
<td>0.84</td>
<td>3.35</td>
</tr>
</tbody>
</table>

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:

\[ E = 4.10 \, P^{0.67} \]

where \( E \) = rate of emission in pounds per hour and \( P \) = 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.1.54(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 \textbf{BHS-DC-713} shall be determined using the testing as required under Condition D.1.54(c). The process weight rates of all the emission units associated with the baghouse \textbf{BHS-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 \textbf{BHSDC-713}.

\textbf{D.1.43 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.

\textbf{Compliance Determination Requirements [326 IAC 2-8-4(1)]}

\textbf{D.1.54 Testing Requirements [326 IAC 2-1.1-11]}

\begin{itemize}
  \item[(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.

  \item[(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.

  \item[(c)] Not later than 180 days after the startup of Bonding Lines 1 and 2, and 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.

  \item[(c)] Not later than 180 days after the startup of Line 9 and Line 10, the Permittee shall perform PM, PM10, and PM2.5 testing of one of the baghouses BH15 or BH16 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.
\end{itemize}
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.1.65 Particulate Control

(a) In order to assure compliance with Conditions D.1.1, and D.1.2, and D.1.3, the baghouses BHN, BHS, BH-1 through BH-16, and BH18, 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][326 IAC 2-8-5(a)(1)]

D.1.76 Parametric Monitoring

The Permittee shall record the pressure drop across the baghouses BHS, BH-1 through BH-16, and BH18 and DC-713, used in conjunction with the powder coating manufacturing operation and metallic bonding operations, 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 of 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. or new upper-bound or lower-bound value to the range established during the last stack test, the Permittee shall take reasonable response. 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 reasonable 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.1.8Z 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.1.98 Baghouse Inspections

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.1.109 Record Keeping Requirements

(a) To document the compliance status with HAPs limits in Condition D.1.24, 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.1.54

(2) weight fraction of HAPs in the raw material used to produce powder coating

Records 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.1.76, 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.1.98, 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 E.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 lb/hr, with particulate emissions from filling operations controlled by baghouse, BHN, exhausting inside;

[This is an affected source under 40 CFR 63 Subpart CCCCCC.]

(b) Sixteen-Eight (816) 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 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;

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<th>Batch Size</th>
<th>Maximum Capacity (lbs of powder coating/hr)</th>
<th>Limiting Process</th>
<th>Mixer and Feeder Auger Baghouse ID</th>
<th>Mixer and Feeder Auger Exhaust</th>
<th>Mill Baghouse ID</th>
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<td>Stack</td>
<td>BH16 and BHS</td>
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</table>

[Under 40 CFR 63, Subpart CCCCCCC, these are affected sources.]

(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 CCCCCCC, PCB is an affected facility]

(d) One (1) powder coating rescreening operation, identified as RES, approved in 2018 for construction, with a maximum capacity of 2,000 pounds of powder coating per hour, using baghouse BHS for particulate control, and exhausting inside;

[Under 40 CFR 63, Subpart CCCCCCC, this is an affected source.]

(e) One (1) powder coating tote tumbling operation, identified as TOT, approved in 2018 for construction, with a maximum capacity of 2,000 pounds of powder coating per hour, using baghouse BHS for particulate control, and exhausting inside;

[Under 40 CFR 63, Subpart CCCCCCC, this is an affected source.]

(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, 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 C, this is an affected source]

(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, 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 C, this is an affected source]

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)
- The PSD limits for PM were separated from the FESOP/PSD limits for PM10 and PM 2.5. The PSD limits for PM are now in Condition D.1.1; the PM10 and PM 2.5 are in Condition D.1.2.

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]

....

(c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 8590 (ask for OAQ, Billing, Licensing, and Training Section) to determine the

....

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

....

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

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

....

### 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 April 26, 2021. Additional information was received on May 3, 2021.

The construction and operation of this proposed revision shall be subject to the conditions of the attached proposed FESOP Significant Permit Revision No. 021-44015-00062. The staff recommends to the Commissioner that the FESOP Significant Permit Revision be approved.

### IDEM Contact

(a) If you have any questions regarding this permit, please contact Tamara Havics, 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) 232-8219 or (800) 451-6027, and ask for Tamara Havics or (317) 232-8219.

(b) A copy of the findings is available on the Internet at: [http://www.in.gov/ai/appfiles/idem-caats/](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/](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/](https://www.in.gov/idem/resources/citizens-guide-to-idem/).
## Appendix A: Emissions Calculations

### Summary of Emissions

<table>
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<tr>
<th>Emission Unit</th>
<th>Control Device ID</th>
<th>PM</th>
<th>PM$_{10}$</th>
<th>PM$_{2.5}$</th>
<th>SO$_2$</th>
<th>NO$_x$</th>
<th>VOC</th>
<th>CO</th>
<th>Single HAP (Antimony, Chromium, or Nickel)</th>
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<td>-</td>
<td>-</td>
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<td>0.52</td>
<td>0.52</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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</tr>
<tr>
<td>Clean-up Operations</td>
<td>-</td>
<td>-</td>
<td>3.38-03</td>
<td>0.01</td>
<td>0.01</td>
<td>1.98-03</td>
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<td>0.01</td>
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<td>-</td>
<td>-</td>
<td>0.06</td>
<td>0.22</td>
<td>0.22</td>
<td>0.02</td>
<td>2.95</td>
<td>0.16</td>
<td>2.39</td>
<td>5.98E-05</td>
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<tr>
<td>Combustion - AHU</td>
<td>-</td>
<td>-</td>
<td>3.07</td>
<td>3.07</td>
<td>3.07</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Powder Coating Booths</td>
<td>-</td>
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<td>3.07</td>
<td>3.07</td>
<td>3.07</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Total PTE Excluding Fugitives</td>
<td>-</td>
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<tr>
<td>Total PTE Including Fugitives</td>
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<td>629.59</td>
<td>629.56</td>
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<td>5.93</td>
<td>2.54</td>
<td>62.63</td>
<td>187.98</td>
</tr>
</tbody>
</table>

*PM2.5 listed is direct PM2.5
### Appendix A: Emissions Calculations

#### Summary of Emissions

**Company Name:** PPG Industries, Inc.  
**Source Address:** 2831 E. Industrial Park Dr., Brazil, Indiana 47834  
**Significant Permit Revision No.:** 021-44015-00062  
**Reviewer:** Tamara Havics

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Control Device ID</th>
<th>PM</th>
<th>PM$_{10}$</th>
<th>PM$_{2.5}^*$</th>
<th>SO$_2$</th>
<th>NO$_x$</th>
<th>VOC</th>
<th>CO</th>
<th>Single HAP (Antimony, Chromium or Nickel)</th>
<th>Total HAPs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mixers and Extrusion Operations at SB-1 through SB-3, Line 1 through Line 5, MBM, PCB</td>
<td>BHN</td>
<td>5.83</td>
<td>5.83</td>
<td>5.83</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>0.58</td>
<td>1.75</td>
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<tr>
<td>SB-1 mill</td>
<td>BH1</td>
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<td>0.60</td>
<td>0.60</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>0.06</td>
<td>0.18</td>
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<tr>
<td>SB-2 mill</td>
<td>BH2</td>
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<td>0.60</td>
<td>0.60</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>0.06</td>
<td>0.18</td>
</tr>
<tr>
<td>SB-3 mill</td>
<td>BH3</td>
<td>0.60</td>
<td>0.60</td>
<td>0.60</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>0.06</td>
<td>0.18</td>
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<tr>
<td>Line 1 mill</td>
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<td>0.60</td>
<td>0.60</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>0.06</td>
<td>0.18</td>
</tr>
<tr>
<td>Line 2 mill</td>
<td>BH5</td>
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<td>0.60</td>
<td>0.60</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>0.06</td>
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</tr>
<tr>
<td>Line 3 mill</td>
<td>BH6</td>
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<td>0.60</td>
<td>0.60</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>0.06</td>
<td>0.18</td>
</tr>
<tr>
<td>Line 4 mill</td>
<td>BH7</td>
<td>0.60</td>
<td>0.60</td>
<td>0.60</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>0.06</td>
<td>0.18</td>
</tr>
<tr>
<td>Line 5 mill</td>
<td>BH8</td>
<td>0.60</td>
<td>0.60</td>
<td>0.60</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>0.06</td>
<td>0.18</td>
</tr>
<tr>
<td>Bonding Lines 1 and 2</td>
<td>DC-713</td>
<td>0.99</td>
<td>0.99</td>
<td>0.99</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>0.10</td>
<td>0.30</td>
</tr>
</tbody>
</table>

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.  
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.

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Control Device ID</th>
<th>PM</th>
<th>PM$_{10}$</th>
<th>PM$_{2.5}^*$</th>
<th>SO$_2$</th>
<th>NO$_x$</th>
<th>VOC</th>
<th>CO</th>
<th>Single HAP (Antimony, Chromium or Nickel)</th>
<th>Total HAPs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mixers and Extrusion Operations at SB-1 through SB-3, Line 1 through Line 5, MBM, PCB</td>
<td>BHN</td>
<td>25.53</td>
<td>25.53</td>
<td>25.53</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>2.55</td>
<td>7.66</td>
</tr>
<tr>
<td>Milling Operations: SB-1 through SB-3, Line 1 through Line 5</td>
<td>BH1-BH8</td>
<td>21.00</td>
<td>21.00</td>
<td>21.00</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>2.10</td>
<td>6.30</td>
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<td>Chiller Conveyors: SB-1 through SB-6, Line 1 through Line 10</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>0.05</td>
<td>-</td>
<td>-</td>
<td>0.09</td>
</tr>
<tr>
<td>Bonding Lines 1 and 2</td>
<td>DC-713</td>
<td>4.35</td>
<td>4.35</td>
<td>4.35</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>0.44</td>
<td>1.31</td>
</tr>
<tr>
<td>Bake Oven</td>
<td>-</td>
<td>0.52</td>
<td>0.52</td>
<td>0.52</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>0.05</td>
<td>0.16</td>
</tr>
<tr>
<td>Clean-up Operations</td>
<td>-</td>
<td>3.3E-03</td>
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<td>0.01</td>
<td>1.0E-03</td>
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<td>0.01</td>
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<tr>
<td>Combustion - Ovens</td>
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<td>0.22</td>
<td>0.22</td>
<td>0.02</td>
<td>2.85</td>
<td>0.16</td>
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<td>0.05</td>
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<tr>
<td>Combustion - AHU</td>
<td>-</td>
<td>3.07</td>
<td>3.07</td>
<td>3.07</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Powder Coating Booths</td>
<td>-</td>
<td>3.07</td>
<td>3.07</td>
<td>3.07</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>Total PTE</strong></td>
<td></td>
<td>54.53</td>
<td>54.70</td>
<td>54.70</td>
<td>0.02</td>
<td>3.02</td>
<td>5.93</td>
<td>2.54</td>
<td>5.14</td>
<td>15.57</td>
</tr>
</tbody>
</table>

*PM2.5 listed is direct PM2.5  
Note: The shaded cells indicate where limits are included.

#### Methodology

Potential to Emit After Issue (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 Industries, Inc.
Source Address: 2831 E. Industrial Park Dr., Brazil, Indiana 47834
Significant Permit Revision No.: 021-44010-00062
Reviewer: Tamara Havics

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%

<table>
<thead>
<tr>
<th>Unit ID</th>
<th>PM emissions (lb/hr)</th>
<th>PM emissions (ton/yr)</th>
<th>Antimony (lb/hr)</th>
<th>Antimony (ton/yr)</th>
<th>Chromium (lb/hr)</th>
<th>Chromium (ton/yr)</th>
<th>Nickel (lb/hr)</th>
<th>Nickel (ton/yr)</th>
<th>Total HAP Emissions (lb/hr)</th>
<th>Total HAP Emissions (ton/yr)</th>
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<tbody>
<tr>
<td>SB-1</td>
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<td>0.67</td>
<td>2.95</td>
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<td>2.95</td>
<td>2.02</td>
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<td>2.95</td>
<td>0.67</td>
<td>2.95</td>
<td>2.02</td>
<td>8.85</td>
</tr>
<tr>
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<td>0.73</td>
<td>3.19</td>
<td>0.73</td>
<td>3.19</td>
<td>2.16</td>
<td>9.57</td>
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<tr>
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<td>4.57</td>
<td>1.04</td>
<td>4.57</td>
<td>1.04</td>
<td>4.57</td>
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<td>1.16</td>
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<td>1.16</td>
<td>5.10</td>
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<td>1.38</td>
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<td>1.38</td>
<td>6.05</td>
<td>4.15</td>
<td>18.16</td>
</tr>
<tr>
<td>Line 4</td>
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<td>4.57</td>
<td>1.04</td>
<td>4.57</td>
<td>1.04</td>
<td>4.57</td>
<td>3.13</td>
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<td>1.38</td>
<td>6.05</td>
<td>1.38</td>
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<td>4.15</td>
<td>18.16</td>
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<td>0.58</td>
<td>2.55</td>
<td>1.75</td>
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<td>0.58</td>
<td>2.55</td>
<td>1.75</td>
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<td>Bonding Line 1</td>
<td>33.54</td>
<td>146.91</td>
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<td>14.69</td>
<td>3.35</td>
<td>14.69</td>
<td>3.35</td>
<td>14.69</td>
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<td>1.68</td>
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<td>1.68</td>
<td>7.35</td>
<td>5.03</td>
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</tr>
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<td>0.01</td>
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<td>0.01</td>
<td>0.05</td>
<td>0.04</td>
<td>0.16</td>
</tr>
</tbody>
</table>

42.89       187.88

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: Emissions Calculations
Modification

Company Name: PPG Industries, Inc.
Source Address: 2831 E. Industrial Park Dr., Brazil, Indiana 47834
Significant Permit Revision No.: 021-44915-00062
Reviewer: Tamara Havics

### Emission Unit Control

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Control Device ID</th>
<th>PM</th>
<th>PM$_{10}$</th>
<th>PM$_{2.5}$*</th>
<th>SO$_2$</th>
<th>NO$_2$</th>
<th>VOC</th>
<th>CO</th>
<th>Single HAP (Antimony, Chromium, or Nickel)</th>
<th>Combined HAPs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bonding Line 1</td>
<td>DC-713, DC-714</td>
<td>146.91</td>
<td>146.91</td>
<td>146.91</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>14.69</td>
<td>44.07</td>
</tr>
<tr>
<td>Bonding Line 2</td>
<td>DC-713, DC-715</td>
<td>73.45</td>
<td>73.45</td>
<td>73.45</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>7.35</td>
<td>22.04</td>
</tr>
<tr>
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<td>0.52</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>0.05</td>
<td>0.10</td>
</tr>
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<td>220.88</td>
<td>220.88</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>22.09</td>
<td>66.26</td>
</tr>
</tbody>
</table>

*PM$_{2.5}$ listed is direct PM$_{2.5}$
Appendix A: Emissions Calculations

Particulate Emissions from Powder Coating Manufacturing Operations

Company Name: PPG Industries, Inc.
Source Address: 2821 E. Industrial Park Dr., Brazil, Indiana 47834
Significant Permit Revision No.: 315-44C 9.1.2
Review: Tamara Havics

Process Information

The powder coat manufacturing operations consist of the following steps:
1. Mixer Filling
2. Extrusion and Rolling
3. Chiller Conveyor
4. Chipper
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-mixing.

Chipper

Airflow

Particulate Emissions from Powder Coating Manufacturing Operations

Table: Emission Sources

<table>
<thead>
<tr>
<th>Process Step</th>
<th>Airflow Rate (cfm)</th>
<th>PM/PM10/PM2.5 Emissions (gr/lb)</th>
<th>PM/PM10/PM2.5 Emissions (ton/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SB-1 Mixer Filling</td>
<td>11,000</td>
<td>0.29</td>
<td>0.73</td>
</tr>
<tr>
<td>SB-2 Mixer Filling</td>
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<td>0.73</td>
</tr>
<tr>
<td>SB-3 Mixer Filling</td>
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<td>0.66</td>
</tr>
<tr>
<td>SB-4 Mixer Filling</td>
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<td>0.29</td>
<td>0.61</td>
</tr>
<tr>
<td>SB-5 Mixer Filling</td>
<td>8,800</td>
<td>0.29</td>
<td>0.57</td>
</tr>
</tbody>
</table>

Notes:

Particulate emissions are generated during moting, filling, and milling. Unmixed powder could also be released at the feeder in the prepudling.

Methodology

Controlled Emission Rate (lb/hr) = Outlet Grain Loading (gr/dscf) x Air Flow (cfm) x 0.01 gr/dscf (7,000 grlb)

Uncontrolled Emission Rate (lb/hr) = Controlled Emission Rate (lb/hr) x 0.783 (hi/h) x 2,000 (ft/hr)

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

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

Notes:

Particulate emission rates are based on the outlet gran 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 Mixer Batch Mixing Operation and the Powder Coating Binder.

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.

6 Potential Emissions < 0.551 lb/hr

Baghouse Airflow Rate (cfm) | PM/PM10/PM2.5 Emissions (ton/hr) | Emissions per Baghouse (ton/hr) | Emissions per Baghouse (ton/hr) |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>SB-1</td>
<td>35,000</td>
<td>12.76</td>
<td>1.16</td>
</tr>
<tr>
<td>SB-2</td>
<td>30,000</td>
<td>11.76</td>
<td>1.07</td>
</tr>
<tr>
<td>SB-3</td>
<td>25,000</td>
<td>10.76</td>
<td>0.98</td>
</tr>
<tr>
<td>SB-4</td>
<td>20,000</td>
<td>9.76</td>
<td>0.89</td>
</tr>
<tr>
<td>SB-5</td>
<td>15,000</td>
<td>8.76</td>
<td>0.81</td>
</tr>
</tbody>
</table>

Control Efficiency: 99%

No. of Pickup points: 10

PM10 and PM2.5 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 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.

Notes:

The capacity of each line is limited by the process with the lowest capacity.

Table: Emission Sources

<table>
<thead>
<tr>
<th>Unit ID</th>
<th>Process Step</th>
<th>Control Device</th>
<th>Uncontrolled Emissions (lb/hr)</th>
<th>Controlled Emissions (lb/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SB-1</td>
<td>Mixer Filling</td>
<td>BHN</td>
<td>5.54</td>
<td>2.92</td>
</tr>
<tr>
<td>SB-2</td>
<td>Mixer Filling</td>
<td>BHN</td>
<td>5.54</td>
<td>2.92</td>
</tr>
<tr>
<td>SB-3</td>
<td>Mixer Filling</td>
<td>BHN</td>
<td>5.54</td>
<td>2.92</td>
</tr>
<tr>
<td>SB-4</td>
<td>Mixer Filling</td>
<td>BHN</td>
<td>5.54</td>
<td>2.92</td>
</tr>
<tr>
<td>SB-5</td>
<td>Mixer Filling</td>
<td>BHN</td>
<td>5.54</td>
<td>2.92</td>
</tr>
</tbody>
</table>

Notes:

Particulate emission rates are based on the outlet gran loading (gr/dscf), flowrate (cfm), and control efficiency (% of the baghouse.

Uncontrolled Emission Rate = Controlled Emission Rate / (1 - Control Efficiency)
## Appendix A: Emissions Calculations

### Particulate Emissions from Milling Operations

**Company Name:** PPG Industries, Inc.  
**Source Address:** 2831 E. Industrial Park Dr., Brazil, Indiana 47834  
**Significant Permit Revision No.:** 021-44015-00062  
**Reviewer:** Tamara Havics

### 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:

<table>
<thead>
<tr>
<th>EUID</th>
<th>BHID</th>
<th>Flow rate (m³/min)</th>
<th>Air Flow Rate (cfm)</th>
<th>Controlled PM/PM10/PM2.5 Emission Rate (lb/hr)</th>
<th>Controlled PM/PM10/PM2.5 Emission Rate (ton/yr)</th>
<th>Uncontrolled PM/PM10/PM2.5 Emission Rate (lb/hr)</th>
<th>Uncontrolled PM/PM10/PM2.5 Emission Rate (ton/yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SB-1</td>
<td>BH1</td>
<td>15</td>
<td>530</td>
<td>0.05</td>
<td>0.20</td>
<td>0.91</td>
<td>3.98</td>
</tr>
<tr>
<td>SB-2</td>
<td>BH2</td>
<td>15</td>
<td>530</td>
<td>0.05</td>
<td>0.20</td>
<td>0.91</td>
<td>3.98</td>
</tr>
<tr>
<td>SB-3</td>
<td>BH3</td>
<td>24</td>
<td>848</td>
<td>0.07</td>
<td>0.32</td>
<td>1.45</td>
<td>6.36</td>
</tr>
<tr>
<td>Line 1</td>
<td>BH4</td>
<td>76</td>
<td>2,684</td>
<td>0.23</td>
<td>1.01</td>
<td>4.60</td>
<td>20.15</td>
</tr>
<tr>
<td>Line 2</td>
<td>BH5</td>
<td>96</td>
<td>3,390</td>
<td>0.29</td>
<td>1.27</td>
<td>5.81</td>
<td>25.46</td>
</tr>
<tr>
<td>Line 3</td>
<td>BH6</td>
<td>132</td>
<td>4,662</td>
<td>0.40</td>
<td>1.75</td>
<td>7.99</td>
<td>35.00</td>
</tr>
<tr>
<td>Line 4</td>
<td>BH7</td>
<td>76</td>
<td>2,684</td>
<td>0.23</td>
<td>1.01</td>
<td>4.60</td>
<td>20.15</td>
</tr>
<tr>
<td>Line 5</td>
<td>BH8</td>
<td>132</td>
<td>4,662</td>
<td>0.40</td>
<td>1.75</td>
<td>7.99</td>
<td>35.00</td>
</tr>
</tbody>
</table>

**Total PTE (ton/yr)**  
7.50

### Notes

- 0.01 gr/dscf  
- 95% Control Efficiency  
- 3.28084 ft/m  
- 60 min/hr  
- 35.31 ft³/m³  
- 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 Industries, Inc.  
**Source Address:** 2831 E. Industrial Park Dr., Brazil, Indiana 47834  
**Significant Permit Revision No.:** 021-44015-00062  
**Reviewer:** Tamara Havics

<table>
<thead>
<tr>
<th>Density (lb/gal)</th>
<th>Wt% of HAP</th>
<th>Max Usage (gal/yr)</th>
<th>Amount lost from system (%)</th>
<th>Total VOC/HAP (lb/hr)</th>
<th>Total VOC/HAP (tons/yr)</th>
<th>VOC/HAP (lb/hr)</th>
<th>VOC/HAP (tons/yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.76</td>
<td>35%</td>
<td>600</td>
<td>10%</td>
<td>0.02</td>
<td>0.09</td>
<td>1.3E-03</td>
<td>0.01</td>
</tr>
</tbody>
</table>

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 Industries, Inc.

**Source Address:** 2831 E. Industrial Park Dr., Brazil, Indiana 47834

**Significant Permit Revision No.:** 021-44015-00062

**Reviewer:** Tamara Havics

<table>
<thead>
<tr>
<th>Line</th>
<th>Emission Unit</th>
<th>Control Device</th>
<th>Charge Rate (lb/hr)</th>
<th>Charge Rate (lb/yr)</th>
<th>Uncontrolled PM/PM10/PM2.5 Emissions (lb/hr)</th>
<th>Uncontrolled PM/PM10/PM2.5 Emissions (ton/yr)</th>
<th>Controlled PM/PM10/PM2.5 Emissions (lb/hr)</th>
<th>Controlled PM/PM10/PM2.5 Emissions (ton/yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Metallic Powder Unloading</strong></td>
<td>Wet Scrubber DC-714</td>
<td>204</td>
<td>1,787,040</td>
<td>0.41</td>
<td>1.79</td>
<td>4.08E-03</td>
<td>0.02</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Coating Powder Unloading DC-713</td>
<td>3150</td>
<td>27,594,000</td>
<td>6.30</td>
<td>27.59</td>
<td>0.06</td>
<td>0.28</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Hopper/Mixer DC-713</td>
<td>3354</td>
<td>29,381,040</td>
<td>6.71</td>
<td>29.38</td>
<td>0.07</td>
<td>0.29</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Cooler DC-713</td>
<td>3354</td>
<td>29,381,040</td>
<td>6.71</td>
<td>29.38</td>
<td>0.07</td>
<td>0.29</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Sieve DC-713</td>
<td>3354</td>
<td>29,381,040</td>
<td>6.71</td>
<td>29.38</td>
<td>0.07</td>
<td>0.29</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Packaging DC-713</td>
<td>3354</td>
<td>29,381,040</td>
<td>6.71</td>
<td>29.38</td>
<td>0.07</td>
<td>0.29</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>146.91</td>
<td>0.33</td>
<td>1.45</td>
<td></td>
</tr>
<tr>
<td><strong>Metallic Powder Unloading</strong></td>
<td>Wet Scrubber DC-715</td>
<td>102</td>
<td>893,520</td>
<td>0.20</td>
<td>0.89</td>
<td>2.04E-03</td>
<td>0.01</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Coating Powder Unloading DC-713</td>
<td>1575</td>
<td>14,690,520</td>
<td>3.35</td>
<td>14.69</td>
<td>0.03</td>
<td>0.14</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Hopper/Mixer DC-713</td>
<td>1677</td>
<td>14,690,520</td>
<td>3.35</td>
<td>14.69</td>
<td>0.03</td>
<td>0.15</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Cooler DC-713</td>
<td>1677</td>
<td>14,690,520</td>
<td>3.35</td>
<td>14.69</td>
<td>0.03</td>
<td>0.15</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Sieve DC-713</td>
<td>1677</td>
<td>14,690,520</td>
<td>3.35</td>
<td>14.69</td>
<td>0.03</td>
<td>0.15</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Packaging DC-713</td>
<td>1677</td>
<td>14,690,520</td>
<td>3.35</td>
<td>14.69</td>
<td>0.03</td>
<td>0.15</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>73.45</td>
<td>0.17</td>
<td>0.73</td>
<td></td>
</tr>
</tbody>
</table>

### Control Device

<table>
<thead>
<tr>
<th>Control Device</th>
<th>Process Weight Rate (ton/hr)</th>
<th>326 IAC 6-3-2 Allowable Particulate Emission Rate (lb/hr)</th>
<th>Uncontrolled PM Emissions (lb/hr)</th>
<th>Is baghouse required to meet limit?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baghouse DC-713; Bonding Line 1</td>
<td>1.68</td>
<td>5.80</td>
<td>6.71</td>
<td>Yes</td>
</tr>
<tr>
<td>Baghouse DC-713; Bonding Line 2</td>
<td>0.84</td>
<td>3.64</td>
<td>3.35</td>
<td>No</td>
</tr>
<tr>
<td>Wet Scrubber DC-714</td>
<td>0.102</td>
<td>0.89</td>
<td>0.41</td>
<td>exempt</td>
</tr>
<tr>
<td>Wet Scrubber DC-715</td>
<td>0.051</td>
<td>0.56</td>
<td>0.20</td>
<td>exempt</td>
</tr>
</tbody>
</table>

**Notes**

- 0.002 Fraction of Charge to Dust Collector (Based on data collected at GSO powder end of the year 2004, and accepted by IDEM)
- 99% Control Efficiency

**Methodology**

- Uncontrolled PM/PM10/PM2.5 Emissions (lb/hr) = Charge Rate (lb/hr) * Fraction of Charge to Dust Collector
- Controlled PM/PM10/PM2.5 Emissions (lb/hr) = Uncontrolled PM/PM10/PM2.5 Emissions (lb/hr) * (1 - Control Efficiency %)
## Appendix A: Emissions Calculations

### Bake Oven Process Emissions

**Company Name:** PPG Industries, Inc.  
**Source Address:** 2831 E. Industrial Park Dr., Brazil, Indiana 47834  
**Significant Permit Revision No.:** 021-44015-00062  
**Reviewer:** Tamara Havics

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Powder per Screw&lt;sup&gt;1&lt;/sup&gt; (lb)</th>
<th>Max Screws Cleaned Per Week</th>
<th>Emission Rate (lbs/yr)</th>
<th>Uncontrolled PM/PM10/PM2.5 Emissions (lb/hr)</th>
<th>Uncontrolled PM/PM10/PM2.5 Emissions (ton/yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electric Bake Oven for screw cleaning</td>
<td>1</td>
<td>20</td>
<td>1040</td>
<td>0.12</td>
<td>0.52</td>
</tr>
</tbody>
</table>

**Total (ton/yr)**

**Methodology**

<sup>1</sup> 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

<table>
<thead>
<tr>
<th>Solvent Usage (gal/wk)</th>
<th>Solvent Usage (gal/yr)</th>
<th>Density (lb/gal)</th>
<th>% VOC</th>
<th>VOC Usage (gal/yr)</th>
<th>VOC (lb/hr)</th>
<th>VOC (ton/yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>55</td>
<td>2,860</td>
<td>6.66</td>
<td>60%</td>
<td>1,716</td>
<td>1.30</td>
<td>5.71</td>
</tr>
</tbody>
</table>

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)
## Ovens

<table>
<thead>
<tr>
<th>Emission Unit ID</th>
<th>Maximum Heat Input Capacity (MMBtu/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>H1</td>
<td>0.05</td>
</tr>
<tr>
<td>H2</td>
<td>0.05</td>
</tr>
<tr>
<td>H3</td>
<td>0.05</td>
</tr>
<tr>
<td>H4</td>
<td>0.05</td>
</tr>
<tr>
<td>H5</td>
<td>0.05</td>
</tr>
<tr>
<td>H6</td>
<td>0.05</td>
</tr>
<tr>
<td>H7</td>
<td>0.05</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Emission Factor in lb/MMCF</th>
<th>Potential Emission in tons/yr</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM*</td>
<td>1.9</td>
<td>3.3E-03</td>
</tr>
<tr>
<td>PM10*</td>
<td>7.6</td>
<td>0.01</td>
</tr>
<tr>
<td>direct PM2.5*</td>
<td>7.6</td>
<td>0.01</td>
</tr>
<tr>
<td>SO2</td>
<td>0.6</td>
<td>1.0E-03</td>
</tr>
<tr>
<td>NOx</td>
<td>100</td>
<td>0.17</td>
</tr>
<tr>
<td>VOC</td>
<td>5.5</td>
<td>0.01</td>
</tr>
<tr>
<td>CO</td>
<td>84</td>
<td>0.14</td>
</tr>
</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>Emission Factor in lb/MMCf</th>
<th>Potential Emission in tons/yr</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzene</td>
<td>2.1E-03</td>
</tr>
<tr>
<td>Dichlobenzene</td>
<td>1.2E-03</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>7.5E-02</td>
</tr>
<tr>
<td>Hexane</td>
<td>1.8E+00</td>
</tr>
<tr>
<td>Toluene</td>
<td>3.4E-03</td>
</tr>
</tbody>
</table>

#### HAPs - Metals

<table>
<thead>
<tr>
<th>Emission Factor in lb/MMCf</th>
<th>Potential Emission in tons/yr</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead</td>
<td>5.0E-04</td>
</tr>
<tr>
<td>Cadmium</td>
<td>1.1E-03</td>
</tr>
<tr>
<td>Chromium</td>
<td>1.4E-03</td>
</tr>
<tr>
<td>Manganese</td>
<td>3.8E-04</td>
</tr>
<tr>
<td>Nickel</td>
<td>2.1E-03</td>
</tr>
</tbody>
</table>

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.
### Air Handling Units

<table>
<thead>
<tr>
<th>Emission Unit ID</th>
<th>Maximum Heat Input Capacity (MMBtu/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHU1</td>
<td>0.394</td>
</tr>
<tr>
<td>AHU2</td>
<td>0.394</td>
</tr>
<tr>
<td>AHU3</td>
<td>0.394</td>
</tr>
<tr>
<td>AHU4</td>
<td>1.000</td>
</tr>
<tr>
<td>AHU5</td>
<td>1.000</td>
</tr>
<tr>
<td>AHU6</td>
<td>1.000</td>
</tr>
<tr>
<td>AHU7</td>
<td>1.000</td>
</tr>
<tr>
<td>AHU8</td>
<td>0.394</td>
</tr>
<tr>
<td>AHU9</td>
<td>0.270</td>
</tr>
<tr>
<td>AHU10</td>
<td>0.270</td>
</tr>
<tr>
<td>AHU11</td>
<td>0.173</td>
</tr>
<tr>
<td>AHU12</td>
<td>0.173</td>
</tr>
<tr>
<td>AHU13</td>
<td>0.173</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>6.634</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Emission Factor in lb/MMCF</th>
<th>Potential Emission in tons/yr</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM*</td>
<td>1.9</td>
<td>5.41E-02</td>
</tr>
<tr>
<td>PM10*</td>
<td>7.6</td>
<td>0.22</td>
</tr>
<tr>
<td>direct PM2.5*</td>
<td>7.6</td>
<td>0.22</td>
</tr>
<tr>
<td>SO2</td>
<td>0.6</td>
<td>1.71E-02</td>
</tr>
<tr>
<td>NOx</td>
<td><strong>100</strong></td>
<td>2.85</td>
</tr>
<tr>
<td>VOC</td>
<td>5.5</td>
<td>0.16</td>
</tr>
<tr>
<td>CO</td>
<td>84</td>
<td>2.39</td>
</tr>
</tbody>
</table>

* 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

<table>
<thead>
<tr>
<th>Emission Factor in lb/MMCf</th>
<th>Potential Emission in tons/yr</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzene</td>
<td>2.1E-03</td>
</tr>
<tr>
<td>Dichlorobenzene</td>
<td>1.2E-03</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>7.5E-02</td>
</tr>
<tr>
<td>Hexane</td>
<td>1.8E+00</td>
</tr>
<tr>
<td>Toluene</td>
<td>3.4E-03</td>
</tr>
<tr>
<td><strong>Total - Organics</strong></td>
<td><strong>5.36E-02</strong></td>
</tr>
</tbody>
</table>

#### HAPs - Metals

<table>
<thead>
<tr>
<th>Emission Factor in lb/MMCf</th>
<th>Potential Emission in tons/yr</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead</td>
<td>5.0E-04</td>
</tr>
<tr>
<td>Cadmium</td>
<td>1.1E-03</td>
</tr>
<tr>
<td>Chromium</td>
<td>1.4E-03</td>
</tr>
<tr>
<td>Manganese</td>
<td>3.8E-04</td>
</tr>
<tr>
<td>Nickel</td>
<td>2.1E-03</td>
</tr>
<tr>
<td><strong>Total Metals</strong></td>
<td><strong>1.6E-04</strong></td>
</tr>
</tbody>
</table>

### Additional Information

- 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

### Quality Control Powder Coating Booths

**Company Name:** PPG Industries, Inc.  
**Source Address:** 2831 E. Industrial Park Dr., Brazil, Indiana 47834  
**Significant Permit Revision No.:** 021-44015-00062  
**Reviewer:** Tamara Havics  

---

### Material Properties

<table>
<thead>
<tr>
<th>Material</th>
<th>Density (lb/gal)</th>
<th>Weight % Volatile</th>
<th>Volume % Non-Volatiles (solids)</th>
<th>Gal of Material (gal/unit)</th>
<th>Maximum (unit/hour)</th>
<th>Transfer Efficiency</th>
<th>Control Efficiency</th>
<th>Pounds VOC per gallon of coating (lb/hr)</th>
<th>Potential VOC (lb/hr)</th>
<th>Potential VOC (lb/day)</th>
<th>Potential VOC (ton/yr)</th>
<th>Potential PM=PM10=PM2.5 (ton/yr)</th>
<th>Controlled Particulate (ton/yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Powder Coating</td>
<td>14.22</td>
<td>0.00%</td>
<td>100.00%</td>
<td>0.10</td>
<td>20.00</td>
<td>65%</td>
<td>99%</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>3.07</td>
<td>0.03</td>
<td></td>
</tr>
</tbody>
</table>

**Total PTE:** 3.07

---

### Methodology

1. **Pounds of VOC per Gallon Coating**
   
   \[ \text{Pounds of VOC per Gallon Coating} = (\text{Density (lb/gal)} \times \text{Weight % Volatile}) \]

2. **Potential VOC (lb/hr)**
   
   \[ \text{Potential VOC (lb/hr)} = \text{Pounds of VOC per gallon coating (lb/gal)} \times \text{Gal of Material (gal/unit)} \times \text{Maximum (units/hr)} \]

3. **Potential VOC (lb/day)**
   
   \[ \text{Potential VOC (lb/day)} = \text{Pounds of VOC per gallon coating (lb/gal)} \times \text{Gal of Material (gal/unit)} \times \text{Maximum (units/hr)} \times (24 \text{ hr/day}) \]

4. **Potential VOC (ton/yr)**
   
   \[ \text{Potential VOC (ton/yr)} = \text{Pounds of VOC per Gallon coating (lb/gal)} \times \text{Gal of Material (gal/unit)} \times \text{Maximum (units/hr)} \times (8760 \text{ hrs/yr}) \times (1 \text{ ton/2000 lbs}) \]

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

5. **Controlled Particulate (ton/yr)**
   
   \[ \text{Controlled Particulate (ton/yr)} = \text{Potential Particulate (ton/yr)} \times (1 - \text{Control Efficiency}) \]

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
Fugitive Dust Emissions - Paved Roads

Company Name: PPG Industries, Inc.
Source Address: 2831 E. Industrial Park Dr., Brazil, Indiana 47834
Permit Number: 021-44015-00062
Reviewer: Tamara Havics

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 (12/2011).

Vehicle Information (provided by source)

<table>
<thead>
<tr>
<th>Type</th>
<th>Maximum number of vehicles per day</th>
<th>Number of one-way trips per day per vehicle</th>
<th>Maximum trips per day (trip/day)</th>
<th>Maximum Weight Loaded (tons/trip)</th>
<th>Total Weight driven per day (ton/day)</th>
<th>Maximum one-way distance (feet/trip)</th>
<th>Maximum one-way distance (mile/day)</th>
<th>Maximum one-way distance (mile/yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vehicle (entering plant) (one-way trip)</td>
<td>30.0</td>
<td>1.0</td>
<td>30.0</td>
<td>21.0</td>
<td>630.0</td>
<td>0.009</td>
<td>0.3</td>
<td>103.7</td>
</tr>
<tr>
<td>Vehicle (leaving plant) (one-way trip)</td>
<td>40.0</td>
<td>1.0</td>
<td>40.0</td>
<td>21.0</td>
<td>840.0</td>
<td>0.009</td>
<td>0.4</td>
<td>138.3</td>
</tr>
</tbody>
</table>

Totals: 70.0 1470.0 0.7 242.0

Average Vehicle Weight Per Trip = 21.0 tons/trip
Average Miles Per Trip = 0.01 miles/trip

Unmitigated Emission Factor, \( E_f = \left[ k \times (sL)^{0.91} \times (W)^{1.02}\right] \)  
(Equation 1 from AP-42 13.2.1)

where \( k = \begin{cases} 
0.011 & \text{PM10} \\
0.0022 & \text{PM2.5} \\
0.00054 & \text{PM} 
\end{cases} \)
\( bVMT = \) particle size multiplier (AP-42 Table 13.2.1-1)
\( W = 21.0 \) tons = average vehicle weight (provided by source)
\( sL = 9.7 \) g/m² = 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, \( E_{ext} = E_f \times \left[1 - \left(\frac{P}{4N}\right)\right] \)  
(Equation 2 from AP-42 13.2.1)

where \( P = 125 \) days of rain greater than or equal to 0.01 inches (see Fig. 13.2.1-2)
\( N = 365 \) days per year

Mitigated Emission Factor, \( E_{ext} = \frac{E_f \times \left[1 - \left(\frac{P}{4N}\right)\right]}{p} \)

Mitigated Emission Factor, \( E_{ext} = \) 0%

Dust Control Efficiency = 0%
(pursuant to control measures outlined in fugitive dust control plan)

<table>
<thead>
<tr>
<th>Process</th>
<th>Mitigated PTE of PM (Before Control) (tons/yr)</th>
<th>Mitigated PTE of PM10 (Before Control) (tons/yr)</th>
<th>Mitigated PTE of PM2.5 (Before Control) (tons/yr)</th>
<th>Mitigated PTE of PM (After Control) (tons/yr)</th>
<th>Mitigated PTE of PM10 (After Control) (tons/yr)</th>
<th>Mitigated PTE of PM2.5 (After Control) (tons/yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vehicle (entering plant) (one-way trip)</td>
<td>0.09</td>
<td>0.02</td>
<td>0.00</td>
<td>0.09</td>
<td>0.02</td>
<td>0.00</td>
</tr>
<tr>
<td>Vehicle (leaving plant) (one-way trip)</td>
<td>0.12</td>
<td>0.02</td>
<td>0.01</td>
<td>0.12</td>
<td>0.02</td>
<td>0.01</td>
</tr>
</tbody>
</table>

Totals: 0.21 0.04 0.01 0.21 0.04 0.01

Methodology:

Total Weight driven per day (ton/day) = \[\text{Maximum Weight Loaded (tons/trip)}\] \times [\text{Maximum trips per day (trip/day)}]
Maximum one-way distance (miles/day) = \[\text{Maximum one-way distance (feet/trip)}\] \div [5280 ft/mile]
Maximum one-way miles (miles/day) = \[\text{Maximum trips per year (trip/day)}\] \times [\text{Maximum one-way distance (mile/trip)}]
Average Vehicle Weight Per Trip (ton/day) = \[\text{Total Weight driven per day (ton/day)}\] \div [\text{Maximum trips per day (trip/day)}]
Average Miles Per Trip (miles/trip) = \[\text{SUM(Maximum one-way miles (miles/day))}\] \div [\text{SUM(Maximum trips per day (trip/day))}]
Unmitigated PTE (tons/yr) = \[\text{Maximum one-way miles (miles/yr)}\] \times [\text{Unmitigated Emission Factor (lb/mile)}] \times [\text{ton/2000 lbs}]
Mitigated PTE (Before Control) (tons/yr) = \[\text{Maximum one-way miles (miles/yr)}\] \times [\text{Mitigated Emission Factor (lb/mile)}] \times [\text{ton/2000 lbs}]
Mitigated PTE (After Control) (tons/yr) = [\text{Mitigated PTE (Before Control) (tons/yr)}] \times [\text{Dust Control Efficiency}]
June 3, 2021

Justin Opperman
PPG Industries Incorporated
2831 E Industrial Park Dr
Brazil IN 47834

Re: Public Notice
PPG Industries, Inc.
Permit Level: FESOP Significant Permit Rev
(Minor PSD/EO) (120)
Permit Number: 021-44015-00062

Dear Justin Opperman:

Enclosed is the Notice of 30-Day Period for Public Comment for your draft air permit.

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. The Notice of 30-Day Period for Public Comment has also been sent to the OAQ Permits Branch Interested Parties List and, if applicable, your Consultant/Agent and/or Responsible Official/Authorized Individual.

The preliminary findings, including the draft permit, technical support document, emission calculations, and other supporting documents, 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 44015

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.

The Public Notice period will begin the date the Notice is published on the IDEM Official Public Notice website. Publication has been requested and is expected within 2-3 business days. You may check the exact Public Notice begins and ends date here: https://www.in.gov/idem/public-notices/

Please note that as of April 17, 2019, IDEM is no longer required to publish the notice in a newspaper.

OAQ has submitted the draft permit package to the Brazil Public Library, 204 N Walnut St, Brazil IN 47834-2297. As a reminder, you are obligated by 326 IAC 2-1.1-6(c) to place a copy of the complete permit application at this library no later than ten (10) days after submittal of the application or additional information to our department. We highly recommend that even if you have already placed these materials at the library, that you confirm with the library that these materials are available for review and request that the library keep the materials available for review during the entire permitting process.
Please review the draft permit documents carefully. This is your opportunity to comment on the draft permit and notify the OAQ of any corrections that are needed before the final decision. Questions or comments about the enclosed documents should be directed to Tamara Havics, Indiana Department of Environmental Management, Office of Air Quality, 100 N. Senate Avenue, Indianapolis, Indiana, 46204 or call (800) 451-6027, and ask for extension 2-8219 or dial (317) 23 2-8219.

Sincerely,

L. Pogost

L. Pogost
Permits Branch
Office of Air Quality

Enclosures
PN Applicant Cover Letter access via website 8/10/2020
June 3, 2021

To: Brazil Public Library 204 N Walnut St Brazil IN 47834-2297

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

Subject: Important Information to Display Regarding a Public Notice for an Air Permit

Applicant Name: PPG Industries, Inc.
Permit Number: 021-44015-00062

Enclosed is a copy of important information to make available to the public. This proposed project is regarding a source that may have the potential to significantly impact air quality. Librarians are encouraged to educate the public to make them aware of the availability of this information. The following information is enclosed for public reference at your library:

- Notice of a 30-day Period for Public Comment
- Draft Permit and Technical Support Document

You will not be responsible for collecting any comments from the citizens. Please refer all questions and request for the copies of any pertinent information to the person named below.

Members of your community could be very concerned in how these projects might affect them and their families. Please make this information readily available until you receive a copy of the final package.

If you have any questions concerning this public review process, please contact Joanne Smiddle-Brush, OAQ Permits Administration Section at 1-800-451-6027, extension 3-0185. Questions pertaining to the permit itself should be directed to the contact listed on the notice.

Enclosures
PN Library updated 4/2019
Notice of Public Comment

June 3, 2021
PPG Industries, Inc.
021-44015-00062

Dear Concerned Citizen(s):

You have been identified as someone who could potentially be affected by this proposed air permit. The Indiana Department of Environmental Management, in our ongoing efforts to better communicate with concerned citizens, invites your comment on the draft permit.

Enclosed is a Notice of Public Comment, which has posted on IDEM’s Public Notice website at https://www.in.gov/idem/public-notices/.

The application and supporting documentation for this proposed permit have been placed at the library indicated in the Notice. These documents more fully describe the project, the applicable air pollution control requirements and how the applicant will comply with these requirements.

If you would like to comment on this draft permit, please contact the person named in the enclosed Public Notice. Thank you for your interest in the Indiana’s Air Permitting Program.

Please Note: If you feel you have received this Notice in error, or 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.
Mail Code 61-53

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<td>Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204</td>
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<td>Justin Opperman PPG Industries Incorporated 2831 E Industrial Park Dr Brazil IN 47834 (Source CAATS)</td>
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<td>Brazil City Council and Mayors Office 203 E. National Ave. Brazil IN 4784 (Local Official)</td>
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<td>Clay County Board of Commissioners 609 E. National St. Brazil IN 47834 (Local Official)</td>
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<td>Mr. Mark Fitton Tribune-Star 222 S. 7th Street Terre Haute IN 47807 (Affected Party)</td>
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Total number of pieces Listed by Sender

Total number of Pieces Received at Post Office

Postmaster, Per (Name of Receiving employee)

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