



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
Toll Free (800) 451-6027
www.idem.IN.gov

TO: Interested Parties / Applicant

DATE: May 23, 2011

RE: Powder Processing Technology, LLC / 127-29461-00021

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

Notice of Decision: Approval – Effective Immediately

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

If you wish to challenge this decision, IC 4-21.5-3-7 and IC 13-15-6-1(b) or IC 13-15-6-1(a) require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204.

For an **initial Title V Operating Permit**, a petition for administrative review must be submitted to the Office of Environmental Adjudication within **thirty (30)** days from the receipt of this notice provided under IC 13-15-5-3, pursuant to IC 13-15-6-1(b).

For a **Title V Operating Permit renewal**, a petition for administrative review must be submitted to the Office of Environmental Adjudication within **fifteen (15)** days from the receipt of this notice provided under IC 13-15-5-3, pursuant to IC 13-15-6-1(a).

The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

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

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

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

Pursuant to 326 IAC 2-7-18(d), any person may petition the U.S. EPA to object to the issuance of an initial Title V operating permit, permit renewal, or modification within sixty (60) days of the end of the forty-five (45) day EPA review period. Such an objection must be based only on issues that were raised with reasonable specificity during the public comment period, unless the petitioner demonstrates that it was impracticable to raise such issues, or if the grounds for such objection arose after the comment period.

To petition the U.S. EPA to object to the issuance of a Title V operating permit, contact:

U.S. Environmental Protection Agency
401 M Street
Washington, D.C. 20406

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



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Part 70 Operating Permit Renewal OFFICE OF AIR QUALITY

**Powder Processing Technology, LLC
5103 Evans Avenue
Valparaiso, Indiana 46383**

(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. Noncompliance with any provision of this permit, except any provision specifically designated as not federally enforceable, constitutes a violation of the Clean Air Act. 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 2-7 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.

Operation Permit No.: T127-29461-00021	
Issued by:	Issuance Date: May 23, 2011
Tripurari P. Sinha, Ph. D., Section Chief Permits Branch Office of Air Quality	Expiration Date: May 23, 2016

TABLE OF CONTENTS

A. SOURCE SUMMARY

- A.1 General Information [326 IAC 2-7-4(c)][326 IAC 2-7-5(15)][326 IAC 2-7-1(22)]
- A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)]
[326 IAC 2-7-5(15)]
- A.3 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)][326 IAC 2-7-4(c)]
[326 IAC 2-7-5(15)]
- A.4 Part 70 Permit Applicability [326 IAC 2-7-2]

B. GENERAL CONDITIONS

- B.1 Definitions [326 IAC 2-7-1]
- B.2 Permit Term [326 IAC 2-7-5(2)] [326 IAC 2-1.1-9.5] [326 IAC 2-7-4(a)(1)(D)]
[IC 13-15-3-6(a)]
- B.3 Term of Conditions [326 IAC 2-1.1-9.5]
- B.4 Enforceability [326 IAC 2-7-7] [IC 13-17-12]
- B.5 Severability [326 IAC 2-7-5(5)]
- B.6 Property Rights or Exclusive Privilege [326 IAC 2-7-5(6)(D)]
- B.7 Duty to Provide Information [326 IAC 2-7-5(6)(E)]
- B.8 Certification [326 IAC 2-7-4(f)] [326 IAC 2-7-6(1)] [326 IAC 2-7-5(3)(C)]
- B.9 Annual Compliance Certification [326 IAC 2-7-6(5)]
- B.10 Preventive Maintenance Plan [326 IAC 2-7-5(1),(3) and (13)] [326 IAC 2-7-6(1) and (6)]
[326 IAC 1-6-3]
- B.11 Emergency Provisions [326 IAC 2-7-16]
- B.12 Permit Shield [326 IAC 2-7-15][326 IAC 2-7-20] [326 IAC 2-7-12]
- B.13 Prior Permits Superseded [326 IAC 2-1.1-9.5] [326 IAC 2-7-10.5]
- B.14 Termination of Right to Operate [326 IAC 2-7-10] [326 IAC 2-7-4(a)]
- B.15 Permit Modification, Reopening, Revocation and Reissuance, or Termination
[326 IAC 2-7-5(6)(C)] [326 IAC 2-7-8(a)] [326 IAC 2-7-9]
- B.16 Permit Renewal [326 IAC 2-7-3] [326 IAC 2-7-4] [326 IAC 2-7-8(e)]
- B.17 Permit Amendment or Modification [326 IAC 2-7-11] [326 IAC 2-7-12]
- B.18 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)]
[326 IAC 2-7-12(b)(2)]
- B.19 Operational Flexibility [326 IAC 2-7-20] [326 IAC 2-7-10.5]
- B.20 Source Modification Requirement [326 IAC 2-7-10.5]
- B.21 Inspection and Entry [326 IAC 2-7-6] [IC 13-14-2-2] [IC 13-30-3-1] [IC 13-17-3-2]
- B.22 Transfer of Ownership or Operational Control [326 IAC 2-7-11]
- B.23 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)][326 IAC 2-1.1-7]
- B.24 Credible Evidence [326 IAC 2-7-5(3)] [326 IAC 2-7-6] [62 FR 8314] [326 IAC 1-1-6]

C. SOURCE OPERATION CONDITIONS

- Emission Limitations and Standards [326 IAC 2-7-5(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]
- C.2 Opacity [326 IAC 5-1]
- C.3 Open Burning [326 IAC 4-1] [IC 13-17-9]
- C.4 Incineration [326 IAC 4-2] [326 IAC 9-1-2]
- C.5 Fugitive Dust Emissions [326 IAC 6-4]
- C.6 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

- Testing Requirements [326 IAC 2-7-6(1)]
- C.7 Performance Testing [326 IAC 3-6]

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

- C.8 Compliance Requirements [326 IAC 2-1.1-11]
- Compliance Monitoring Requirements [326 IAC 2-7-5(1)] [326 IAC 2-7-6(1)]
- C.9 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]
- C.10 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)]
[326 IAC 2-7-6(1)]
- Corrective Actions and Response Steps [326 IAC 2-7-5] [326 IAC 2-7-6]
- C.11 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68]
- C.12 Response to Excursions or Exceedances [326 IAC 2-7-5] [326 IAC 2-7-6]
- C.13 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5]
[326 IAC 2-7-6]
- Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]
- C.14 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6]
- C.15 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11]
- Stratospheric Ozone Protection
- C.16 Compliance with 40 CFR 82 and 326 IAC 22-1

D.1. EMISSIONS UNIT OPERATION CONDITIONS

- Emission Limitations and Standards [326 IAC 2-7-5(1)]
- D.1.1 PSD Minor Limit [326 IAC 2-2] [326 IAC 6-3-2]
- D.1.2 Preventive Maintenance Plan [326 IAC 2-7-5(13)]
- Compliance Determination Requirements
- D.1.3 Particulate Control [326 IAC 2-7-6(6)]
- Compliance Monitoring Requirements [326 IAC 2-7-5(1)] [326 IAC 2-7-6(1)]
- D.1.4 Visible Emissions Notations
- D.1.5 Parametric Monitoring
- D.1.6 Broken or Failed Bag/Cartridge Detection
- D.1.7 Cyclone Failure Detection
- Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]
- D.1.8 Record Keeping Requirements

D.2. FACILITY OPERATION CONDITIONS

- Emission Limitations and Standards [326 IAC 2-7-5(1)]
- D.2.1 Particulate Emission Limitations for Sources of Indirect Heating (PM) [326 IAC 6-2-2]
- D.2.2 Particulate [326 IAC 6-3-2]

Certification 30
Emergency Occurrence Report 31
Quarterly Deviation and Compliance Monitoring Report 33

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 2-7-4(c)][326 IAC 2-7-5(15)][326 IAC 2-7-1(22)]

The Permittee owns and operates a stationary metal oxide product manufacturing source.

Source Address:	5103 Evans Avenue, Valparaiso, Indiana 46383
General Source Phone Number:	(219) 462-4141
SIC Code:	3499
County Location:	Porter
Source Location Status:	Nonattainment for PM _{2.5} standard Attainment for all other criteria pollutants
Source Status:	Part 70 Operating Permit Program Election to Part 70 Permit Program Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories Minor Source under PSD and Nonattainment NSR

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)][326 IAC 2-7-5(15)]

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

The source consists of the following permitted emission units:

- (a) Two (2) 2-foot by 20-foot electric calciners, identified as A-CS-3 and A-CS-4, installed before 1970, each equipped with a cartridge dust collector, identified as A-DC-1, exhausting through vent V-ACS-3. Capacity: 600 pounds per hour of various metal oxide products.
- (b) One (1) indirect-fired calciner, identified as A-CS-2, installed in 1995, equipped with a cartridge dust collector, identified as A-DC-1, exhausting through stacks V-ACS-2 and V-AHX-1. Capacity: 1,200 pounds per hour of various metal oxide products.
- (c) One (1) 20-foot dryer, identified as A-SD-1, installed in 1973, equipped with parallel cyclones and a cartridge dust collector, identified as A-SD-1, exhausting through stack V-BSD-1. Capacity: 3,000 pounds per hour of various metal oxide products.
- (d) One (1) ball milling unit, identified as A-BM-7, installed in 1973, equipped with a cartridge dust collector, exhausting to the interior. Capacity: 21,000 pounds per batch (1,400 pounds per hour) of various metal oxide products.
- (e) One (1) batch weigh up operation, identified as A-GB-1, installed in 1973, equipped with a cartridge dust collector, identified as A-GB-1, exhausting to the interior. Capacity: 2000 pounds per hour of various metal oxide products.

- (f) One (1) weigh up operation, identified as A-WU-1, installed in 1970, equipped with a cartridge dust collector, identified as A-WU-1, exhausting through stack V-AWU-1. Capacity: 100 pounds per hour of various metal oxide products.
- (g) One (1) 17.5-foot dryer, identified as B-SD-1, installed in 1984, equipped with parallel cyclones and a cartridge dust collector, exhausting through stack V-BSD-1. Capacity: 2,000 pounds per hour of various metal oxide products.
- (h) One (1) 9.5-foot anhydrous spray dryer, identified as B-SD-2, installed in 1984, equipped with a cyclone and cartridge dust collector, exhausting through stack V-BSD-1. Capacity: 580 pounds per hour of various metal oxide products.
- (i) One (1) 5-foot by 40-foot direct-fired calciner, identified as B-C-1, installed in 1970, equipped with a baghouse or cartridge dust collector for particulate control, exhausting through stack V-BCS-1. Capacity: 1,500 pounds per hour of various metal oxide products.
- (j) One (1) 16-foot spray dryer, identified as C-SD-1, installed before 1970, equipped with three (3) parallel cyclone separators and a cartridge dust collector for particulate control, exhausting through stack V-CSD-1. Capacity: 1,500 pounds per hour of various metal oxide products.
- (k) Four (4) milling units, identified as C-GB-1, installed in 1984, equipped with a cartridge dust collector, exhausting to the interior. Capacity: 500 pounds per hour of various metal oxide products.
- (l) One (1) batch weigh up operation, identified as C-WU-1, installed in 1980, equipped with two (2) cabinet dust collectors, exhausting to the interior. Capacity: 2,000 pounds per hour of various metal oxide products.
- (m) One (1) batch weigh up operation, identified as C-GB-2, installed in 1984, equipped with a cartridge dust collector, exhausting to the interior. Capacity: 200 pounds per hour of various metal oxide products.
- (n) One (1) 3-foot by 26-foot indirect-fired calciner unit, identified as C-CS-6, installed in 1996, equipped with a cartridge dust collector, exhausting through stacks V-CCS-6 and V-CHX-6. Capacity: 1,200 pounds per hour of various metal oxide products.
- (o) One (1) 15-inch by 26-foot electric calciner unit, identified as C-CS-7, installed in 1996, equipped with a cartridge dust collector, exhausting through stacks V-CCS-7 and V-CHX-7. Capacity: 200 pounds per hour of various metal oxide products.
- (p) Blending/packaging operations, identified as A-BL-1, installed in 1993, equipped with a cartridge dust collector, identified as A-BL-1, exhausting to the interior. Capacity: 2,000 pounds per hour of various metal oxide products.
- (q) Bulk handling operations, identified as A-BH-1, installed in 1995, equipped with a dust collector, identified as A-BH-1, exhausting to the interior. Capacity: 1,600 pounds per hour of various metal oxide products.
- (r) Six (6) ball milling units, identified as A-BM-1 to A-BM-6, installed in 1973, each equipped with a cartridge dust collector, identified as A-BM-1 to A-BM-6, exhausting to the interior. Capacity: 7,500 pounds per batch (500 pounds per hour) of various metal oxide products.

- (s) Three (3) fire bead screening units, identified as B-FB-1, installed in 1989, equipped with a cartridge dust collector, exhausting to the interior. Capacity: 500 pounds per hour of various metal oxide products.
- (t) One (1) blending units identified as B-GB-1, installed in 1984, equipped with a cartridge dust collector, exhausting to the interior. Capacity: 500 pounds per hour of various metal oxide products.
- (u) One (1) wet ball milling operation, identified as B-WB-1, installed in 1980, equipped with a cartridge dust collector, exhausting to the interior. Capacity: 10,000 pounds per batch (666.7 pounds per hour) of various metal oxide products.
- (v) One (1) ball mill operation, utilizing a wet batch process, identified as B-BM-1, installed in 1992, equipped with a cartridge dust collector, exhausting to the interior, capacity: 580 pounds per hour of various metal oxide products.

A.3 Specifically Regulated Insignificant Activities
[326 IAC 2-7-1(21)][326 IAC 2-7-4(c)][326 IAC 2-7-5(15)]

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

- (a) One (1) heating boiler, identified as C-HB-1, constructed prior to 1983, exhausting through stack V-CHB-1, rated at 5.25 million British thermal units per hour. [326 IAC 6-2-2].
- (b) One (1) hot water heater, constructed prior to 1983, with a heat input rating of 0.72 million British thermal units per hour. [326 IAC 6-2-2].
- (c) One (1) hot water heater, constructed prior to 1983, with a heat input rating of 0.42 million British thermal units per hour. [326 IAC 6-2-2].
- (d) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 4000 actual cubic feet per minute, including the following; deburring; buffing; polishing; abrasive blasting; pneumatic conveying; and woodworking operations [326 IAC 6-3-2].
- (e) One (1) Pilot Spray Dryer, with a maximum flow of 350 cubic feet per minute and an outlet grain loading of less than 0.03 grain per dry standard cubic foot. [326 IAC 2-7-1(21)(B)]
- (f) Paved and unpaved road and parking with public access. [326 IAC 6-4]

A.4 Part 70 Permit Applicability [326 IAC 2-7-2]

This stationary source is required to have a Part 70 permit by 326 IAC 2-7-2 (Applicability) because:

- (a) It is a major source, as defined in 326 IAC 2-7-1(22);
- (b) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 - Applicability).

SECTION B GENERAL CONDITIONS

B.1 Definitions [326 IAC 2-7-1]

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 2-7-5(2)][326 IAC 2-1.1-9.5][326 IAC 2-7-4(a)(1)(D)][IC 13-15-3-6(a)]

- (a) This permit, T127-29461-00021, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, 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 2-7-7] [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 2-7-5(5)]

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 2-7-5(6)(D)]

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

B.7 Duty to Provide Information [326 IAC 2-7-5(6)(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 2-7-4(f)][326 IAC 2-7-6(1)][326 IAC 2-7-5(3)(C)]

- (a) A certification required by this permit meets the requirements of 326 IAC 2-7-6(1) if:
 - (1) it contains a certification by a "responsible official" as defined by 326 IAC 2-7-1(34), 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) A "responsible official" is defined at 326 IAC 2-7-1(34).

B.9 Annual Compliance Certification [326 IAC 2-7-6(5)]

- (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 April 15 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

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Air Enforcement Branch - Indiana (AE-17J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

- (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 2-7-5(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 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

B.10 Preventive Maintenance Plan [326 IAC 2-7-5(1),(3) and (13)][326 IAC 2-7-6(1) and (6)][326 IAC 1-6-3]

- (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 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

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 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).
- (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.11 Emergency Provisions [326 IAC 2-7-16]

- (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.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a 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, or Northwest Regional Office 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
Northwest Regional Office phone: (219) 757-0265; fax: (219) 757-0267.

- (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 2-7-5(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 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

- (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 2-7-4(c)(9) 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 2-7 and any other applicable rules.
- (g) 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.

B.12 Permit Shield [326 IAC 2-7-15][326 IAC 2-7-20][326 IAC 2-7-12]

- (a) Pursuant to 326 IAC 2-7-15, the Permittee has been granted a permit shield. The permit shield provides that compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that either the applicable requirements are included and specifically identified in this permit or the permit contains an explicit determination or concise summary of a determination that other specifically identified requirements are not applicable. The Indiana statutes from IC 13 and rules from 326 IAC, referenced 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 Part 70 permit under 326 IAC 2-7 or for applicable requirements for which a permit shield has been granted.

This permit shield does not extend to applicable requirements which are promulgated after the date of issuance of this permit unless this permit has been modified to reflect such new requirements.

- (b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, IDEM, OAQ, shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.
- (c) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application. Erroneous information means information that the Permittee knew to be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.
- (d) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:
 - (1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;
 - (2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;
 - (3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and
 - (4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.
- (e) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).
- (f) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAQ, has issued the modifications. [326 IAC 2-7-12(c)(7)]
- (g) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAQ, has issued the modification. [326 IAC 2-7-12(b)(8)]

B.13 Prior Permits Superseded [326 IAC 2-1.1-9.5][326 IAC 2-7-10.5]

- (a) All terms and conditions of permits established prior to T127-29461-00021 and issued pursuant to permitting programs approved into the state implementation plan have been either:
 - (1) incorporated as originally stated,
 - (2) revised under 326 IAC 2-7-10.5, or
 - (3) deleted under 326 IAC 2-7-10.5.
- (b) Provided that all terms and conditions are accurately reflected in this permit, all previous registrations and permits are superseded by this Part 70 operating permit.

B.14 Termination of Right to Operate [326 IAC 2-7-10][326 IAC 2-7-4(a)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-7-3 and 326 IAC 2-7-4(a).

**B.15 Permit Modification, Reopening, Revocation and Reissuance, or Termination
[326 IAC 2-7-5(6)(C)][326 IAC 2-7-8(a)][326 IAC 2-7-9]**

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 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 2-7-5(6)(C)] The notification by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).
- (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 2-7-9(a)(3)]
- (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 2-7-9(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-7-9(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 2-7-9(c)]

B.16 Permit Renewal [326 IAC 2-7-3][326 IAC 2-7-4][326 IAC 2-7-8(e)]

- (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 2-7-4. 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(40). The renewal application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

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 2-7 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 2-7-4(a)(2)(D), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.17 Permit Amendment or Modification [326 IAC 2-7-11][326 IAC 2-7-12]

- (a) Permit amendments and modifications are governed by the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 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 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

**B.18 Permit Revision Under Economic Incentives and Other Programs
[326 IAC 2-7-5(8)][326 IAC 2-7-12(b)(2)]**

- (a) No Part 70 permit revision or notice shall be required under any approved economic incentives, marketable Part 70 permits, emissions trading, and other similar programs or processes for changes that are provided for in a Part 70 permit.
- (b) Notwithstanding 326 IAC 2-7-12(b)(1) and 326 IAC 2-7-12(c)(1), minor Part 70 permit modification procedures may be used for Part 70 modifications involving the use of economic incentives, marketable Part 70 permits, emissions trading, and other similar approaches to the extent that such minor Part 70 permit modification procedures are explicitly provided for in the applicable State Implementation Plan (SIP) or in applicable requirements promulgated or approved by the U.S. EPA.

B.19 Operational Flexibility [326 IAC 2-7-20][326 IAC 2-7-10.5]

- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b),(c), or (e) 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 preconstruction approval required by 326 IAC 2-7-10.5 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 2-7-20(b),(c), or (e). 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 2-7-20(b)(1), (c)(1), and (e)(2).
- (b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-7-20(a). For each such Section 502(b)(10) of the Clean Air Act change, the required written notification shall include the following:
- (1) A brief description of the change within the source;
 - (2) The date on which the change will occur;
 - (3) Any change in emissions; and

- (4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted is not considered an application form, report or compliance certification. Therefore, the notification by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

- (c) Emission Trades [326 IAC 2-7-20(c)]

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 2-7-20(c).

- (d) Alternative Operating Scenarios [326 IAC 2-7-20(d)]

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 2-7-5(9). No prior notification of IDEM, OAQ, or U.S. EPA is required.

- (e) 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.20 Source Modification Requirement [326 IAC 2-7-10.5]

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

B.21 Inspection and Entry [326 IAC 2-7-6][IC 13-14-2-2][IC 13-30-3-1][IC 13-17-3-2]

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 Part 70 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 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 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 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.22 Transfer of Ownership or Operational Control [326 IAC 2-7-11]

- (a) The Permittee must comply with the requirements of 326 IAC 2-7-11 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 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

B.23 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)][326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees to IDEM, OAQ within thirty (30) calendar days of receipt of a billing. 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) Except as provided in 326 IAC 2-7-19(e), 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 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.24 Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][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 2-7-5(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 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.3 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.4 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.5 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). 326 IAC 6-4-2(4) is not federally enforceable.

C.6 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:

- (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
- (2) If there is a change in the following:
 - (A) Asbestos removal or demolition start date;
 - (B) Removal or demolition contractor; or
 - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

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

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

- (e) Procedures for Asbestos Emission Control

The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.

- (f) Demolition and Renovation

The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).

- (g) Indiana Licensed Asbestos Inspector

The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Licensed Asbestos inspector is not federally enforceable.

Testing Requirements [326 IAC 2-7-6(1)]

C.7 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 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

- (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 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).
- (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.8 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 2-7-5(1)][326 IAC 2-7-6(1)]

C.9 Compliance Monitoring [326 IAC 2-7-5(3)][326 IAC 2-7-6(1)]

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 or of initial start-up, whichever is later, 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 or the date of initial startup, whichever is later, 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 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

Unless otherwise specified in the approval for the new emission unit(s), compliance monitoring for new emission units or emission units added through a source modification shall be implemented when operation begins.

C.10 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)] [326 IAC 2-7-6(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.
- (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 2-7-5][326 IAC 2-7-6]

C.11 Risk Management Plan [326 IAC 2-7-5(12)] [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.12 Response to Excursions or Exceedances [326 IAC 2-7-5] [326 IAC 2-7-6]

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.13 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5][326 IAC 2-7-6]

- (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 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

C.14 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6]

- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this permit, for all record keeping requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or the date of initial start-up, whichever is later, to begin such record keeping.

C.15 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11]

- (a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. 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 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34). 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.16 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) Two (2) 2-foot by 20-foot electric calciners, identified as A-CS-3 and A-CS-4, installed before 1970, each equipped with a cartridge dust collector, identified as A-DC-1, exhausting through vent V-ACS-3. Capacity: 600 pounds per hour of various metal oxide products.
- (b) One (1) indirect-fired calciner, identified as A-CS-2, installed in 1995, equipped with a cartridge dust collector, identified as A-DC-1, exhausting through stacks V-ACS-2 and V-AHX-1. Capacity: 1,200 pounds per hour of various metal oxide products.
- (c) One (1) 20-foot dryer, identified as A-SD-1, installed in 1973, equipped with parallel cyclones and a cartridge dust collector, identified as A-SD-1, exhausting through stack V-BSD-1. Capacity: 3,000 pounds per hour of various metal oxide products.
- (d) One (1) ball milling unit, identified as A-BM-7, installed in 1973, equipped with a cartridge dust collector, exhausting to the interior. Capacity: 21,000 pounds per batch (1,400 pounds per hour) of various metal oxide products.
- (e) One (1) batch weigh up operation, identified as A-GB-1, installed in 1973, equipped with a cartridge dust collector, identified as A-GB-1, exhausting to the interior. Capacity: 2000 pounds per hour of various metal oxide products.
- (f) One (1) weigh up operation, identified as A-WU-1, installed in 1970, equipped with a cartridge dust collector, identified as A-WU-1, exhausting through stack V-AWU-1. Capacity: 100 pounds per hour of various metal oxide products.
- (g) One (1) 17.5-foot dryer, identified as B-SD-1, installed in 1984, equipped with parallel cyclones and a cartridge dust collector, exhausting through stack V-BSD-1. Capacity: 2,000 pounds per hour of various metal oxide products.
- (h) One (1) 9.5-foot anhydrous spray dryer, identified as B-SD-2, installed in 1984, equipped with a cyclone and cartridge dust collector, exhausting through stack V-BSD-1. Capacity: 580 pounds per hour of various metal oxide products.
- (i) One (1) 5-foot by 40-foot direct-fired calciner, identified as B-C-1, installed in 1970, equipped with a baghouse or cartridge dust collector for particulate control, exhausting through stack V-BCS-1. Capacity: 1,500 pounds per hour of various metal oxide products.
- (j) One (1) 16-foot spray dryer, identified as C-SD-1, installed before 1970, equipped with three (3) parallel cyclone separators and a cartridge dust collector for particulate control, exhausting through stack V-CSD-1. Capacity: 1,500 pounds per hour of various metal oxide products.
- (k) Four (4) milling units, identified as C-GB-1, installed in 1984, equipped with a cartridge dust collector, exhausting to the interior. Capacity: 500 pounds per hour of various metal oxide products.
- (l) One (1) batch weigh up operation, identified as C-WU-1, installed in 1980, equipped with two (2) cabinet dust collectors, exhausting to the interior. Capacity: 2,000 pounds per hour of various metal oxide products.
- (m) One (1) batch weigh up operation, identified as C-GB-2, installed in 1984, equipped with a cartridge dust collector, exhausting to the interior. Capacity: 200 pounds per hour of various metal oxide products.

- (n) One (1) 3-foot by 26-foot indirect-fired calciner unit, identified as C-CS-6, installed in 1996, equipped with a cartridge dust collector, exhausting through stacks V-CCS-6 and V-CHX-6. Capacity: 1,200 pounds per hour of various metal oxide products.
- (o) One (1) 15-inch by 26-foot electric calciner unit, identified as C-CS-7, installed in 1996, equipped with a cartridge dust collector, exhausting through stacks V-CCS-7 and V-CHX-7. Capacity: 200 pounds per hour of various metal oxide products.
- (p) Blending/packaging operations, identified as A-BL-1, installed in 1993, equipped with a dust collector, identified as A-BL-1, exhausting to the interior. Capacity: 2,000 pounds per hour of various metal oxide products.
- (q) Bulk handling operations, identified as A-BH-1, installed in 1995, equipped with a dust collector, identified as A-BH-1, exhausting to the interior. Capacity: 1,600 pounds per hour of various metal oxide products.
- (r) Six (6) ball milling units, identified as A-BM-1 to A-BM-6, installed in 1973, each equipped with a cartridge dust collector, identified as A-BM-1 to A-BM-6, exhausting to the interior. Capacity: 7,500 pounds per batch (500 pounds per hour) of various metal oxide products.
- (s) Three (3) fire bead screening units, identified as B-FB-1, installed in 1989, equipped with a cartridge dust collector, exhausting to the interior. Capacity: 500 pounds per hour of various metal oxide products.
- (t) One (1) blending units identified as B-GB-1, installed in 1984, equipped with a cartridge dust collector, exhausting to the interior. Capacity: 500 pounds per hour of various metal oxide products.
- (u) One (1) wet ball milling operation, identified as B-WB-1, installed in 1980, equipped with a cartridge dust collector, exhausting to the interior. Capacity: 10,000 pounds per batch (666.7 pounds per hour) of various metal oxide products.
- (v) One (1) ball mill operation, utilizing a wet batch process, identified as B-BM-1, installed in 1992, equipped with a cartridge dust collector, exhausting to the interior, capacity: 580 pounds per hour of various metal oxide products.

(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 2-7-5(1)]

D.1.1 PSD Minor Limit [326 IAC 2-2] [326 IAC 6-3-2]

- (a) The PM and PM₁₀ emissions from the facilities listed in the table below shall be limited to the following:

Process	PSD Allowable PM/PM ₁₀ Emission Rates (pounds per hour)
2' x 20' electric calciners (2 units), A-CS-3/4	1.83
Indirect fired calciner, A-CS-2	2.91
20' dryer, A-SD-1	4.84
Ball milling unit, A-BM-7	3.23
Batch weigh-up, A-GB-1	4.10
Weigh up, A-WU-1	0.55
17.5' dryer, B-SD-1	3.69
9.5' anhydrous spray dryer, B-SD-2	1.79
5' x 40' direct-fired calciner, B-C-1	3.38
16' spray-dryer, C-SD-1	3.38
Milling (4 units), C-GB-1	1.62
Batch weigh-up, C-WU-1	3.69
Batch weigh-up, C-GB-2	0.88
3' x 26' indirect-fired calciner, C-CS-6	2.91
15' x 26' electric calciner, C-CS-7	0.88
Blending/packaging, A-BL-1	3.69
Bulk handling, A-BH-7	3.53
Ball milling (6 units), A-BH-1/6	1.62
Fire bead screening (3 units), B-FB-1	1.62
Blending, B-GB-1	1.62
Wet ball mill, B-WB-1	1.96
Ball Mill, B-BM-1	1.79

Compliance with these limits, combined with the potential to emit PM and PM₁₀ from other emission units at the source, shall limit PM and PM₁₀ from the entire source to less than 250 tons per twelve (12) consecutive month period, each, and render 326 IAC 2-2 not applicable to the entire source.

- (b) Compliance with these limits shall provide compliance with rule 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes.)

D.1.2 Preventive Maintenance Plan [326 IAC 2-7-5(13)] standard and optional

A Preventive Maintenance Plan is required for these facilities and its 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

D.1.3 Particulate Control [326 IAC 2-7-6(6)]

- (a) In order to comply with Condition D.1.1 and because the control devices are considered integral to the process, all of the cyclones and cartridge dust collectors, for particulate control, shall be in operation and control emissions from the ferrite bead manufacturing operations at all times that the ferrite bead manufacturing operations are in operation.

- (b) In the event that bag or cartridge failure is observed in a multi-compartment particulate control device, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.1.4 Visible Emissions Notations

- (a) Visible emission notations of the ferrite bead manufacturing stack exhausts; V-ACS-3, V-ACS-2, V-AHX-1, V-BSD-1, V-BCS-1, V-CSD-1, V-CCS-6 and V-CHX-6 shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

D.1.5 Parametric Monitoring

The Permittee shall record the pressure drop across the baghouse and cartridge dust collectors: A-DC-1, A-SD-1, B-SD-1, B-SD-2, B-C-1, C-SD-1 and C-CS-6 at least once per day. When for any one reading, the pressure drop across the baghouse or any of the above cartridge dust collectors is outside the normal range of 1.0 and 6.0 inches of water, or a range established during the latest stack test, the Permittee shall take reasonable response steps. 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.

D.1.6 Broken or Failed Bag/Cartridge Detection [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

- (a) For a single compartment device 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 device 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 baghouse operations. 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 or cartridge 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.1.7 Cyclone Failure Detection

In the event that cyclone failure has been observed:

Failed units and the associated process will be shut down immediately until the failed units have 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). Section C – Response to Excursions and Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.1.8 Record Keeping Requirements

Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

SECTION D.2 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: Insignificant Activities

- (a) One (1) heating boiler identified as C-HB-1, constructed prior to 1983, exhausting through stack V-CHB-1, rated at 5.25 million British thermal units per hour [326 IAC 6-2-2].
- (b) One (1) hot water heater, constructed prior to 1983, with a heat input rating of 0.72 million British thermal units per hour. [326 IAC 6-2-2].
- (c) One (1) hot water heater, constructed prior to 1983, with a heat input rating of 0.42 million British thermal units per hour. [326 IAC 6-2-2].
- (d) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 4000 actual cubic feet per minute, including the following; deburring; buffing; polishing; abrasive blasting; pneumatic conveying; and woodworking operations [326 IAC 6-3-2].

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

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.2.1 Particulate Emission Limitations for Sources of Indirect Heating (PM) [326 IAC 6-2-2]

Pursuant to 326 IAC 6-2-2(a) the PM emissions from the boiler, identified as C-HB-1, and the PM emissions from the hot water heaters, shall not exceed 0.60 pounds per million British thermal units of heat input.

D.2.2 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the grinding and machining operations and manufacturing activities shall be limited by the following equation:

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

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

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
PART 70 OPERATING PERMIT
CERTIFICATION**

Source Name: Powder Processing Technology, LLC
Source Address: 5103 Evans Avenue, Valparaiso, Indiana 46383
Part 70 Permit No.: T127-29461-00021

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

Please check what document is being certified:

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

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

Signature:

Printed Name:

Title/Position:

Phone:

Date:

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

PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT

Source Name: Powder Processing Technology, LLC
Source Address: 5103 Evans Avenue, Valparaiso, Indiana 46383
Part 70 Permit No.: T127-29461-00021

This form consists of 2 pages

Page 1 of 2

<input type="checkbox"/> This is an emergency as defined in 326 IAC 2-7-1(12) <ul style="list-style-type: none">• The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and• The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16.
--

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

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

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

Page 2 of 2

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

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF AIR QUALITY
 COMPLIANCE AND ENFORCEMENT BRANCH
 PART 70 OPERATING PERMIT
 QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Powder Processing Technology, LLC
 Source Address: 5103 Evans Avenue, Valparaiso, Indiana 46383
 Part 70 Permit No.: T127-29461-00021

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

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

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

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

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

Addendum to the Technical Support Document (ATSD) for a
Part 70 Operating Permit Renewal

Source Background and Description

Source Name:	Powder Processing Technology, LLC
Source Location:	5103 Evans Ave, Valparaiso, IN 46383
County:	Porter
SIC Code:	3499
Operation Permit No.:	T127-29461-00021
Permit Reviewer:	James Mackenzie

On March 22, 2011, the Office of Air Quality (OAQ) had a notice published in the Chesterton Tribune, Chesterton, Indiana, stating that Powder Processing Technology, LLC had applied for a renewal of their Part 70 Operating permit. The notice also stated that the OAQ proposed to issue a renewal of their Part 70 Operating permit for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

Comments and Responses

On March 11, Keramida Environmental, Inc. submitted a comment to IDEM, OAQ on the draft renewal Part 70 operating permit.

The Technical Support Document (TSD) is used by IDEM, OAQ for historical purposes. IDEM, OAQ does not make any changes to the original TSD, but the Permit will have the updated changes. The comments and revised permit language are provided below with deleted language as ~~strikeouts~~ and new language **bolded**.

Comment:

Section D.1.5 Parametric Monitoring incorrectly cites V-ACS-1 for pressure drop measurement. There is no V-ACS-1 listed in the facility description.

Response:

IDEM agrees that V-ACS-1 is not identified in the facility description. Furthermore, individual control devices should be specified for pressure drop measurements. Where the control device is not named discretely, the name of the emission unit served is employed. The permit has been revised as follows:

D.1.5 Parametric Monitoring

The Permittee shall record the pressure drop across the baghouses ~~and or~~ cartridge dust collectors: ~~VACS-1, V-ACS-2, V-AHX-1, V-BSD-1, V-BCS-1, V-CSD-1, V-CCS-6 and V-CHX-6:~~ **A-DC-1, A-SD-1, B-SD-1, B-SD-2, B-C-1, C-SD-1 and C-CS-6** at least once per day. When for any one reading, the pressure drop across the baghouse or any of the above cartridge dust collectors is outside the normal range of 1.0 and 6.0 inches of water, or a range established

during the latest stack test, the Permittee shall take reasonable response steps. 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.

All other conditions in the permit remain unchanged.

Indiana Department of Environmental Management
Office of Air Quality

Technical Support Document (TSD) for a Part 70 Operating Permit Renewal

Source Background and Description

Source Name:	Powder Processing Technology, LLC
Source Location:	5103 Evans Ave, Valparaiso, IN 46383
County:	Porter
SIC Code:	3499
Permit Renewal No.:	T127-29461-00021
Permit Reviewer:	James Mackenzie

The Office of Air Quality (OAQ) has reviewed the operating permit renewal application from Powder Processing Technology, LLC relating to the operation of a stationary reprographic ferrite bead manufacturing source. On July 16, 2010, Powder Processing Technology, LLC submitted an application to the OAQ requesting to renew its operating permit. Powder Processing Technology, LLC was issued its first Part 70 Operating Permit Renewal T127-17568-00021 on April 19, 2006.

Permitted Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units:

- (a) Two (2) 2-foot by 20-foot electric calciners, identified as A-CS-3 and A-CS-4, installed before 1970, each equipped with a cartridge dust collector, identified as A-DC-1, exhausting through vent V-ACS-3. Capacity: 600 pounds per hour of various metal oxide products.
- (b) One (1) indirect-fired calciner, identified as A-CS-2, installed in 1995, equipped with a cartridge dust collector, identified as A-DC-1, exhausting through stacks V-ACS-2 and V-AHX-1. Capacity: 1,200 pounds per hour of various metal oxide products.
- (c) One (1) 20-foot dryer, identified as A-SD-1, installed in 1973, equipped with parallel cyclones and a cartridge dust collector, identified as A-SD-1, exhausting through stack V-BSD-1. Capacity: 3,000 pounds per hour of various metal oxide products.
- (d) One (1) ball milling unit, identified as A-BM-7, installed in 1973, equipped with a cartridge dust collector, exhausting to the interior. Capacity: 21,000 pounds per batch (1,400 pounds per hour) of various metal oxide products.
- (e) One (1) batch weigh up operation, identified as A-GB-1, installed in 1973, equipped with a cartridge dust collector, identified as A-GB-1, exhausting to the interior. Capacity: 2000 pounds per hour of various metal oxide products.
- (f) One (1) weigh up operation, identified as A-WU-1, installed in 1970, equipped with a cartridge dust collector, identified as A-WU-1, exhausting through stack V-AWU-1. Capacity: 100 pounds per hour of various metal oxide products.
- (g) One (1) 17.5-foot dryer, identified as B-SD-1, installed in 1984, equipped with parallel cyclones and a cartridge dust collector, exhausting through stack V-BSD-1. Capacity: 2,000 pounds per hour of various metal oxide products.

- (h) One (1) 9.5-foot anhydrous spray dryer, identified as B-SD-2, installed in 1984, equipped with a cyclone and cartridge dust collector, exhausting through stack V-BSD-1. Capacity: 580 pounds per hour of various metal oxide products.
- (i) One (1) 5-foot by 40-foot direct-fired calciner, identified as B-C-1, installed in 1970, equipped with a baghouse or cartridge dust collector for particulate control, exhausting through stack V-BCS-1. Capacity: 1,500 pounds per hour of various metal oxide products.
- (j) One (1) 16-foot spray dryer, identified as C-SD-1, installed before 1970, equipped with three (3) parallel cyclone separators and a cartridge dust collector for particulate control, exhausting through stack V-CSD-1. Capacity: 1,500 pounds per hour of various metal oxide products.
- (k) Four (4) milling units, identified as C-GB-1, installed in 1984, equipped with a cartridge dust collector, exhausting to the interior. Capacity: 500 pounds per hour of various metal oxide products.
- (l) One (1) batch weigh up operation, identified as C-WU-1, installed in 1980, equipped with two (2) cabinet dust collectors, exhausting to the interior. Capacity: 2,000 pounds per hour of various metal oxide products.
- (m) One (1) batch weigh up operation, identified as C-GB-2, installed in 1984, equipped with a cartridge dust collector, exhausting to the interior. Capacity: 200 pounds per hour of various metal oxide products.
- (n) One (1) 3-foot by 26-foot indirect-fired calciner unit, identified as C-CS-6, installed in 1996, equipped with a cartridge dust collector, exhausting through stacks V-CCS-6 and V-CHX-6. Capacity: 1,200 pounds per hour of various metal oxide products.
- (o) One (1) 15-inch by 26-foot electric calciner unit, identified as C-CS-7, installed in 1996, equipped with a cartridge dust collector, exhausting through stacks V-CCS-7 and V-CHX-7. Capacity: 200 pounds per hour of various metal oxide products.
- (p) Blending/packaging operations, identified as A-BL-1, installed in 1993, equipped with a dust collector, identified as A-BL-1, exhausting to the interior. Capacity: 2,000 pounds per hour of various metal oxide products.
- (q) Bulk handling operations, identified as A-BH-1, installed in 1995, equipped with a dust collector, identified as A-BH-1, exhausting to the interior. Capacity: 1,600 pounds per hour of various metal oxide products.
- (r) Six (6) ball milling units, identified as A-BM-1 to A-BM-6, installed in 1973, each equipped with a cartridge dust collector, identified as A-BM-1 to A-BM-6, exhausting to the interior. Capacity: 7,500 pounds per batch (500 pounds per hour) of various metal oxide products.
- (s) Three (3) fire bead screening units, identified as B-FB-1, installed in 1989, equipped with a cartridge dust collector, exhausting to the interior. Capacity: 500 pounds per hour of various metal oxide products.
- (t) One (1) blending units identified as B-GB-1, installed in 1984, equipped with a cartridge dust collector, exhausting to the interior. Capacity: 500 pounds per hour of various metal oxide products.
- (u) One (1) wet ball milling operation, identified as B-WB-1, installed in 1980, equipped with a cartridge dust collector, exhausting to the interior. Capacity: 10,000 pounds per batch (666.7 pounds per hour) of various metal oxide products.

- (v) One (1) ball mill operation, utilizing a wet batch process, identified as B-BM-1, installed in 1992, equipped with a cartridge dust collector, exhausting to the interior, capacity: 580 pounds per hour of various metal oxide products.

Insignificant Activities

The source also consists of the following insignificant activities, as defined in 326 IAC 2-7-1(21):

Specifically Regulated Insignificant Activities:

- (a) One (1) heating boiler, identified as C-HB-1, constructed prior to 1983, exhausting through stack V-CHB-1, rated at 5.25 million British thermal units per hour. [326 IAC 6-2-2]
- (b) One (1) hot water heater, constructed prior to 1983, with a heat input rating of 0.72 million British thermal units per hour. [326 IAC 6-2-2]
- (c) One (1) hot water heater, constructed prior to 1983, with a heat input rating of 0.42 million British thermal units per hour. [326 IAC 6-2-2]
- (d) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 4,000 actual cubic feet per minute, including the following; deburring; buffing; polishing; abrasive blasting; pneumatic conveying; and woodworking operations. [326 IAC 6-3-2]
- (e) One (1) Pilot Spray Dryer, with a maximum flow of 350 cubic feet per minute and an outlet grain loading of less than 0.03 grain per dry standard cubic foot. [326 IAC 2-7-1(21)(B)]
- (f) Paved and unpaved road and parking with public access. [326 IAC 6-4]

Additional Insignificant Activities at the source:

- (g) One (1) lab type pilot facility, identified as B-PS-1, which includes three (3) ball mills, a spray dryer (7 foot diameter), two (2) lab calciners, and three (3) small kilns.
- (h) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour which include:
 - (1) Three (3) air makeup units with heat input ratings per unit of two (2) million British thermal units per hour.
 - (2) Twenty-four (24) space heaters with heat input ratings per unit of 0.3 million British thermal units per hour.
 - (3) One (1) space heater with a heat input rating per unit of 0.03 million British thermal units per hour.
 - (4) Two (2) space heaters with heat input ratings per unit of 0.33 million British thermal units per hour.
 - (5) One (1) air heater with a heat input rating of 2.475 million British thermal units per hour.

- (6) Eleven (11) space heaters with heat input ratings per unit of 0.3 million British thermal units per hour.
 - (7) Two (2) space heaters with heat input ratings per unit of 0.075 million British thermal units per hour.
 - (8) One (1) air makeup unit with a heat input rating of 1.65 million British thermal units per hour.
 - (9) Two (2) space heaters with heat input ratings per unit of 0.3 million British thermal units per hour.
 - (10) Three (3) space heaters with heat input ratings per unit of 0.075 million British thermal units per hour.
 - (11) One (1) space heater with a heat input rating of 0.625 million British thermal units per hour.
 - (12) One (1) space heater with a heat input rating of 0.938 million British thermal units per hour.
- (i) Equipment powered by internal combustion engines of capacity equal to or less than 500,000 million British thermal units per hour, except where total capacity of equipment operated by one stationary source exceeds 2,000,000 British thermal units per hour which includes one (1) 200 horsepower generator with a heat input of 0.680 million British thermal units per hour.
 - (j) Vessels storing lubricating oils, hydraulic oils, machining oils, and machining fluids.
 - (k) Filling drums, pails or other packaging containers with lubricating oils, waxes, and greases.
 - (l) Application of oils, greases, lubricants or other nonvolatile materials applied as temporary protective coatings.
 - (m) Cleaners and solvents characterized as follows:
 - (1) having a vapor pressure equal to or less than 2 kiloPascals; 15 millimeters mercury; or 0.3 pounds per square inch measured at 38 degrees Celsius (100 degrees Fahrenheit) or;
 - (2) having a vapor pressure equal to or less than 0.7 kiloPascals; 5 millimeters mercury; or 0.1 pounds per square inch measured at 20 degrees Celsius (68 degrees Fahrenheit); the use of which for all cleaners and solvents combined does not exceed 145 gallons per 12 months.
 - (n) Infrared cure equipment.
 - (o) Activities associated with the treatment of wastewater streams with an oil and grease content less than or equal to 1 percent by volume.
 - (p) Forced and induced draft cooling tower system not regulated under a NESHAP.
 - (q) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.

- (r) Blowdown for any of the following: sight glass, boiler, compressors; pumps; and cooling tower.
- (s) Filter or coalescer media changeout.
- (t) A laboratory as defined in 326 IAC 2-7-1(21)(H).

Emission Units and Pollution Control Equipment Removed From the Source

The source has removed the following emission units:

One (1) fire bead screening operation, identified as A-FB-1, installed in 1973, equipped with a baghouse and cartridge dust collector, identified as A-FB-1, exhausting to the interior, capacity: 500 pounds per hour of reprographic powder.

Existing Approvals

Since the issuance of the Part 70 Operating First Renewal Permit 127-17568-00021 on April 19, 2006. No other permits were issued to this source.

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

Air Pollution Control Justification as an Integral Part of the Process

The following justification was incorporated into this permit from the previous Part 70 Operating Permit T127-17568-00021. The original determination was made in the review for Part 70 Operating Permit T127-08479-00021.

All particulate matter emissions are made up of the product that Powder Processing Technology, LLC is producing (not waste) and therefore, it is in their best interest to capture and reprocess as much of the product as possible using the existing dust collectors. The cost of the capturing and reprocessing of the PM emissions is considerably less than the cost of purchasing new product which are the PM emissions.

IDEM, OAQ had previously evaluated this justification in permit No. T127-08479-00021, issued on December 16, 1998 and agreed that the dust collectors are considered as an integral part of the manufacturing processes (excluding the 5-foot by 40-foot direct-fired calciner, identified as B-C-1, because the control device for this unit was installed at a later date to comply with 326 IAC 6-3-2). Therefore, the permitting level will be determined using the potential emissions after the dust collectors. Operating conditions in the proposed permit will specify that all dust collectors shall operate at all times when the manufacturing processes are in operation.

Enforcement Issue

There are no enforcement actions pending.

Emission Calculations

See Appendix A of this document for detailed emission calculations.

County Attainment Status

The source is located in Porter County.

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

Pollutant	Designation
SO ₂	Cannot be classified for the area bounded on the north by Lake Michigan; on the west by the Lake County and Porter County line; on the south by I-80 and I-90; and on the east by the LaPorte County and Porter County line. The remainder of Porter County is better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O ₃	Attainment effective May 11, 2010, for the 8-hour ozone standard. ¹
PM ₁₀	Unclassifiable effective November 15, 1990.
NO ₂	Cannot be classified or better than national standards.
Pb	Not designated.
¹ The U. S. EPA has acknowledged in both the proposed and final rulemaking for this redesignation that the anti-backsliding provisions for the 1-hour ozone standard no longer apply as a result of the redesignation under the 8-hour ozone standard. Therefore, permits in Porter County are no longer subject to review pursuant to Emission Offset, 326 IAC 2-3. Basic nonattainment designation effective federally April 5, 2005, for PM _{2.5} .	

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

- (a) **Ozone Standards**
 Volatile organic compounds (VOC) and Nitrogen Oxides (NO_x) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NO_x emissions are considered when evaluating the rule applicability relating to ozone. Porter County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO_x emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

- (b) **PM_{2.5}**
 U.S. EPA, in the Federal Register Notice 70 FR 943 dated January 5, 2005, has designated Porter County as nonattainment for PM_{2.5}. On March 7, 2005 the Indiana Attorney General's Office, on behalf of IDEM, filed a lawsuit with the Court of Appeals for the District of Columbia Circuit challenging U.S. EPA's designation of nonattainment areas without sufficient data. However, in order to ensure that sources are not potentially liable for a violation of the Clean Air Act, the OAQ is following the U.S. EPA's New Source Review Rule for PM_{2.5} promulgated on May 8, 2008. These rules became effective on July 15, 2008. Therefore, direct PM_{2.5} and SO₂ emissions were reviewed pursuant to the requirements of Nonattainment New Source Review, 326 IAC 2-1.1-5. See the State Rule Applicability – Entire Source section.

- (c) **Other Criteria Pollutants**
 Porter County has been classified as attainment or unclassifiable in Indiana for SO₂, CO₂, PM₁₀, and NO₂. 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 of the twenty-eight (28) listed source categories under 326 IAC 2-2, 326 IAC 2-3, or 326 IAC 2-7, and there is no applicable New Source Performance Standard that was in effect on August 7, 1980, fugitive emissions are not counted toward the determination of PSD, Emission Offset, and Part 70 Permit applicability.

Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions of the source.

Unrestricted Potential Emissions	
Pollutant	Tons/year
PM	7.1
PM ₁₀	7.1
PM _{2.5}	7.1
SO ₂	0.1
VOC	1.1
CO	12.7
NO _x	23.2
Single HAP (Ni)	0.6
Total HAP	0.9

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of VOC and NO_x is less than twenty five (25) tons per year and all remaining criteria pollutants are less than one hundred (100) tons per year. Yet, the source has elected to remain subject to Part 70 rules in the event that the source proposes to install new equipment. Therefore, the source is subject to the provisions of 326 IAC 2-7.
- (b) The potential to emit of each criteria pollutant is <100 tons per year, the potential to emit any single HAP is <10 tons per year, and the potential to emit any combination of HAP is <25 tons per year. However, the Permittee wishes this source to remain permitted as a Title V source.

Actual Emissions

The following table shows the actual emissions as reported by the source. This information reflects the 2009 OAQ emission data.

Pollutant	Actual Emissions (tons/year)
PM ₁₀	0
PM _{2.5}	0
SO ₂	0
VOC	0
CO	0
NO _x	3

Part 70 Permit Conditions

This source is subject to the requirements of 326 IAC 2-7, because the source met the following:

- (a) Emission limitations and standards, including those operational requirements and limitations that assure compliance with all applicable requirements at the time of issuance of Part 70 permits.
- (b) Monitoring and related record keeping requirements which assume that all reasonable information is provided to evaluate continuous compliance with the applicable requirements.

Federal Rule Applicability

- (a) This source does not involve a pollutant-specific emissions unit as defined in 40 CFR 64.1 for all criteria pollutants:
 - (1) has a potential to emit before controls equal to or greater than the major source threshold for the pollutant involved;
 - (2) is subject to an emission limitation or standard for that pollutant; and
 - (3) uses a control device, as defined in 40 CFR 64.1, to comply with that emission limitation or standard.

Therefore, the requirements of 40 CFR Part 64, Compliance Assurance Monitoring, are not applicable to this source.

- (b) The requirements of the New Source Performance Standard, 40 CFR 60 Subpart Dc are not included in the permit for the natural gas fired boiler, rated at 5.25 million British thermal units per hour, identified as C-HB-1, because it has an input heat capacity less than ten (10) million British thermal units per hour.
- (c) The requirements of the New Source Performance Standard (NSPS) for Stationary Spark Ignition Internal Combustion Engines is not applicable to the 200hp generator because its construction date is before July 1, 2007.

- (d) There are no other New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in the permit for this source.
- (e) The requirement of the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Engines, 40 CFR 63 Subpart ZZZZ, is not applicable to the 200hp generator because the facility where the engine is located does not have the potential to emit equal to or greater than 10 tons per year of a single HAP, and does not have the potential to emit equal to or greater than 25 tons per year of a combination of HAPs.
- (f) There are no other National Emission Standards for Hazardous Air Pollutants (NESHAP) 40 CFR 63 included in the permit for this source.

State Rule Applicability - Entire Source

326 IAC 2-2 (Prevention of Significant Deterioration (PSD))

The unrestricted potential emissions of PM and PM₁₀ are greater than two hundred-fifty (250) tons per year, each. Therefore, in order to remain a minor source pursuant to 326 IAC 2-2, PSD, limits must be established for the source.

Process	Allowable PM/PM ₁₀ Emission Rates (lb/hr)
2' x 20' electric calciners (2 units), A-CS-3/4	1.83
Indirect fired calciner, A-CS-2	2.91
20' dryer, A-SD-1	4.84
Ball milling unit, A-BM-7	3.23
Batch weigh-up, A-GB-1	4.10
Weigh up, A-WU-1	0.55
17.5' dryer, B-SD-1	3.69
9.5' anhydrous spray dryer, B-SD-2	1.79
5' x 40' direct-fired calciner, B-C-1	3.38
16' spray-dryer, C-SD-1	3.38
Milling (4 units), C-GB-1	1.62
Batch weigh-up, C-WU-1	3.69
Batch weigh-up, C-GB-2	0.88
3' x 26' indirect-fired calciner, C-CS-6	2.91
15' x 26' electric calciner, C-CS-7	0.88
Blending/packaging, A-BL-1	3.69
Bulk handling, A-BH-7	3.53
Ball milling (6 units), A-BH-1/6	1.62
Fire bead screening (3 units), B-FB-1	1.62
Blending, B-GB-1	1.62
Wet ball mill, B-WB-1	1.96
Ball Mill, B-BM-1	1.79

Compliance with these limits, combined with the potential to emit PM and PM₁₀ from other emission units at the source, shall limit each of PM and PM₁₀ from the entire source to less than 250 tons per twelve (12) consecutive month period and render 326 IAC 2-2 not applicable to the entire source..

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

Particulate control devices are considered integral to the processes at the source. Their operation and control is an enforceable requirement of the permit. Consequent to this condition,, the reprographic ferrite bead manufacturing source is limited to less than ten (10) tons per year of a single HAP and twenty five (25) tons per year of a combination of HAPs. Therefore, it is a minor source for HAPs .

Therefore, this rule is not applicable to any of the equipment constructed after 1997.

326 IAC 2-6 (Emission Reporting)

This source, located in Porter County, does not have the potential to emit one hundred (100) tpy or more of a regulated air pollutant. It is not subject to 326 IAC 2-6 (Emission Reporting) because it does not have the potential to emit equal to or greater than twenty-five (25) tons per year of volatile organic compounds (VOC) or oxides of nitrogen (NO_x), and does not emit equal to or greater than five (5) tons per year of lead. Consequently, it does not require a Part 70 permit. The source operates under the Part 70 Permit Program by its own election. Therefore, the requirements of 326 IAC 2-6 do not apply.

326 IAC 5-1 (Opacity Limitations)

This source is subject to the opacity limitations specified in 326 IAC 5-1.

State Rule Applicability – Individual Facilities

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

Pursuant to 326 IAC 6-3-2, (Particulate Emission Limitations for Manufacturing Processes), particulate emissions from the facilities listed in the table below shall not exceed the listed pounds per hour limits when operating at the maximum process weight listed in the following table.

Process	Process Weight Rate (lb/hr)	Process Weight Rate (ton/hr)	Allowable PM Emission Rate (lb/hr)
2' x 20' electric calciners (2 units), A-CS-3/4	600	0.30	1.83
Indirect fired calciner, A-CS-2	1200	0.60	2.91
20' dryer, A-SD-1	3000	1.50	5.38
Ball milling unit, A-BM-7	1400	0.70	3.23
Batch weigh-up, A-GB-1	2000	1.00	4.10
Weigh up, A-WU-1	100	0.05	0.55
17.5' dryer, B-SD-1	2000	1.00	4.10
9.5' anhydrous spray dryer, B-SD-2	580	0.29	1.79
5' x 40' direct-fired calciner, B-C-1	1500	0.75	3.38

Process	Process Weight Rate (lb/hr)	Process Weight Rate (ton/hr)	Allowable PM Emission Rate (lb/hr)
16' spray-dryer, C-SD-1	1500	0.75	3.38
Milling (4 units), C-GB-1	500	0.25	1.62
Batch weigh-up, C-WU-1	2000	1.00	4.10
Batch weigh-up, C-GB-2	200	0.10	0.88
3' x 26' indirect-fired calciner, C-CS-6	1200	0.60	2.91
15' x 26' electric calciner, C-CS-7	200	0.10	0.88
Blending/packaging, A-BL-1	2000	1.00	4.10
Bulk handling, A-BH-7	1600	0.80	3.53
Ball milling (6 units), A-BH-1/6	500	0.25	1.62
Fire bead screening (3 units), B-FB-1	500	0.25	1.62
Blending, B-GB-1	500	0.25	1.62
Wet ball mill, B-WB-1	667	0.33	1.96
Ball Mill, B-BM-1	580	0.29	1.79

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

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

As shown in the preceding table, all facilities comply with the allowable particulate emission rates pursuant to this rule. Since IDEM, OAQ has determined that the control devices are integral to this process the baghouses, cyclones, and cartridge dust collectors shall be in operation at all times the ferrite bead manufacturing operations are in operation.

These allowable amounts are incorporated as the PSD Minor Limits for PM and PM₁₀.

State Rule Applicability – Insignificant Activities

326 IAC 6-2-2 (Particulate emission limitations for sources of indirect heating: emission limitations for facilities specified in 326 IAC 6-2-1(a))

Pursuant to 326 IAC 6-2-2(a) the PM emissions from the boiler, identified as C-HB-1, and the two hot water heaters shall not exceed 0.60 pounds per million British thermal units of heat input because the maximum heat input rating of each individual unit is less than the specified 10 MMBtu/hr threshold.

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

Pursuant to 326 IAC 6-3-2, the particulate from the grinding and machining operations shall be allowed by the table, Allowable Rate of Emission Based on Process Weight Rate.

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

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

Testing Requirements

There are no proposed testing requirements because emission calculations are based on stack test data, which demonstrates compliance with the established limits through the use of the integral control equipment.

Compliance Determination and Monitoring Requirements

Permits issued under 326 IAC 2-7 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs IDEM, OAQ in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-7-5. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

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

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

The ferrite bead manufacturing operations, identified as A-CS-3, A-CS-4, A-CS-2, A-SD-1, A-GB-1, B-SD-1, B-SD-2, B-C-1, C-SD-1 and C-CS-6 have applicable compliance monitoring conditions as specified below:

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

Emission Unit, Vent/Stack Cartridge Dust Collector [or Baghouse]	Parameter	Frequency	Range	Excursions and Exceedances
2' x 20' electric calciners (2 units), A-CS-3/4 Vent V-ACS-3	Water Press. Drop	Daily	1" to 6"	Response Steps
	Visible Emissions		Normal- Abnormal	
Indirect fired calciner, A-CS-2 Vents V-ACS-2 and V-AHX-1	Water Press. Drop	Daily	1" to 6"	Response Steps
	Visible Emissions		Normal- Abnormal	
20' dryer, A-SD-1 *Vent V-BSD-1	Water Press. Drop	Daily	1" to 6"	Response Steps
	Visible Emissions		Normal- Abnormal	
17.5' dryer, B-SD-1 *Vent V-BSD-1	Water Press. Drop	Daily	1" to 6"	Response Steps
	Visible Emissions		Normal- Abnormal	
9.5' anhydrous spray dryer, B-SD-2	Water Press. Drop	Daily	1" to 6"	Response Steps

Emission Unit, Vent/Stack Cartridge Dust Collector [or Baghouse]	Parameter	Frequency	Range	Excursions and Exceedances
*Vent V-BSD-1	Visible Emissions		Normal- Abnormal	
5' x 40' direct-fired calciner, B-C-1 [cartridge dust collector or baghouse] Vent V-BCS-1	Water Press. Drop	Daily	1" to 6"	Response Steps
	Visible Emissions		Normal- Abnormal	
16' spray-dryer, C-SD-1 Vent V-CSD-1	Water Press. Drop	Daily	1" to 6"	Response Steps
	Visible Emissions		Normal- Abnormal	
3' x 26' indirect-fired calciner, C-CS-6 Vents V-CCS-6, V-CHX-6	Water Press. Drop	Daily	1" to 6"	Response Steps
	Visible Emissions		Normal- Abnormal	

*Control device serves multiple emissions units.

These monitoring conditions are necessary because the PM and PM10 control devices for the ferrite bead manufacturing processes must operate properly to ensure compliance with 326 IAC 2-2 (PSD Minor Limits) and 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes).

Other emissions units' emissions are low; therefore, no compliance monitoring is required.

Recommendation

The staff recommends to the Commissioner that the Part 70 Operating Permit Renewal be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An application for the purposes of this review was received on August 17, 2010.

Conclusion

The operation of this stationary reprographic ferrite bead manufacturing source shall be subject to the conditions of the attached Part 70 Operating Permit Renewal No. 127-29461-00021.

IDEM Contact

- (a) Questions regarding this proposed permit can be directed to James Mackenzie at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 233-2641 or toll free at 1-800-451-6027 extension 3-2641.
- (b) A copy of the findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>

- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: www.idem.in.gov

Baghouse Operations

UNCONTROLLED PTE

Process	Unit ID	Process Weight Rate (lb/hr)	Emission Factor (lb/ton)	Note	PTE PM (ton/yr)	Emission Factor (lb/ton)	Note	PTE PM ₁₀ (ton/yr)	PTE PM _{2.5} (ton/yr)	HAP (Ni)
Calciner	A-CS-3 & 4	600	15	a	20	15	a	20	20	2.0
Calciner	A-CS-2	1200	15	a	39	15	a	39	39	3.9
Dryer	A-SD-1	3000	28	b	184	6.5	b	43	43	18.4
Ball Mill	A-BM-7	1400	2.4	c	7	0.31	c	1	1	0.7
Weigh-Up	A-GB-1	2000	0.01	d	0.0	0.004	d	0.0	0.0	0.0
Weigh-Up	A-WU-1	100	0.01	d	0.0	0.004	d	0.0	0.0	0.0
Dryer	B-SD-1	2000	28	b	123	6.5	b	28	28	12.3
Spray-Dryer	B-SD-2	580	90	e	114	90	e	114	114	11.4
Calciner	B-C-1	1500	15	a	49	15	a	49	49	4.9
Spray-Dryer	C-SD-1	1500	90	e	296	90	e	296	296	29.6
Milling	C-GB-1	500	2.4	c	3	0.31	c	0	0	0.3
Weigh-Up	C-WU-1	2000	0.01	d	0.0	0.004	d	0.0	0.0	0.0
Weigh-Up	C-GB-2	200	0.01	d	0.0	0.004	d	0.0	0.0	0.0
Calciner	C-CS-6	1200	15	a	39	15	a	39	39	3.9
Calciner	C-CS-7	200	15	a	7	15	a	7	7	0.7
Blend/Pkg.	A-BL-1	2000	0.06	f	0.3	0.03	f	0.1	0.1	0.0
Bulk Hdg.	A-BH-1	1600	0.06	f	0.2	0.03	f	0.1	0.1	0.0
Ball Mill	A-BM-1-6	500	2.4	c	3	0.31	c	0	0	0.3
Bead Screening	B-FB-1	500	0.30	g	0.3	0.30	g	0.3	0.3	0.0
Blending	B-GB-1	500	1.1	h	1	1.1	h	1	1	0.1
Wet Ball Mill	B-WB-1	666.7	0.0	i	0.0	0.0	i	0.0	0.0	0.0
Wet Ball Mill	B-BM-1	580	0.0	i	0.0	0.0	i	0.0	0.0	0.0
Totals					885.7			639.0	639.0	88.6

- a) Calciner (SCC 3-05-019-05); AP42, 11.21-4, Phosphate Rock Processing
- b) Dryer (SCC 3-05-002-05,-55 to -63); AP42, 11.1-3, Hot Mix Asphalt Plants
- c) Dry grinding without air conveying and/or air classification (SCC 3-03-024-10); AP42, 11.24-2, Metallic Mineral Processing
- d) Material handling and transfer (SCC 3-03-024-08); AP42, 11.24-2, Metallic Mineral Processing
- e) Spray Dryer (SCC 3-01-009-01); AP42, 6.8-1, Detergent Spray Drying
- f) Material handling and transfer - all minerals except bauxite (SCC 3-03-024-04); AP42, 11.24-2, Metallic Minerals Processing
- g) Concentrate screening, with cyclone (SCC 3-05-033-36); AP42, 11.28-1, Vermiculite Processing
- h) Material handling & transfer - bauxite/alumina (SCC 3-03-024-11; AP42, 11.24-2, Metallic Minerals Processing
- i) Wet grinding (negligible); AP42, 11.24-2, Metallic Minerals Processing

Methodology

Emission Rate in tons/yr = (lbs/hr)*(ton/2000lb)*(emiss. Fact.)(lb/ton)*(8760 hr/yr)*(ton/2000 lb)

HAPs based on 10% of PM as Nickel (from renewal 127-17568-00021)

Baghouse Operations

Control ID	Unit ID	Control Efficiency (%)	Grain Loading (gr./ASCF)	Gas or Air Flow Rate (acfm.)	Emission Rate before Controls (lb/hr)	Emission Rate before Controls (tons/yr)	Emission Rate after Controls (lb/hr)	Emission Rate after Controls (tons/yr)	HAP Emissions (Ni) after Controls (tons/yr)
A-DC-1*	A-CS-3 & 4	99.9%	0.002	2200	36.0	158	0.04	0.16	0.016
A-DC-1*	A-CS-2	99.9%	0.0003	2200	5.03	22.0	0.005	0.022	0.002
A-SD-1	A-SD-1	99.9%	0.005	8450	363	1589	0.363	1.59	0.159
A-BM-7	A-BM-7	99.9%	0.040	2200	754	3304	0.754	3.30	0.330
A-GB-1	A-GB-1	99.9%	0.00005	5400	2.45	10.7	0.002	0.011	0.000
A-WU-1	A-WU-1	99.9%	0.002	2200	34.5	151	0.035	0.151	0.015
B-SD-1	B-SD-1	99.9%	0.008	2230	150	657	0.150	0.657	0.00
B-SD-2	B-SD-2	99.9%	0.001	4400	55.1	241	0.055	0.241	0.00
B-C-1	B-C-1	99.9%	N/A	N/A	4.50	19.7	0.005	0.020	0.00
C-SD-1	C-SD-1	99.9%	0.003	5200	120	527	0.120	0.527	0.053
C-GB-1	C-GB-1	99.9%	0.0002	5200	8.02	35.1	0.008	0.035	0.004
C-WU-1	C-WU-1	99.9%	0.0002	3900	6.02	26.4	0.006	0.026	0.003
C-GB-2	C-GB-2	99.9%	0.0002	3500	5.01	21.9	0.005	0.022	0.002
C-CS-6	C-CS-6	99.9%	0.0002	3900	5.01	22.0	0.005	0.022	0.002
C-CS-7	C-CS-7	99.9%	0.0002	3900	5.01	22.0	0.005	0.022	0.002
A-BL-1	A-BL-1	99.9%	0.00002	5400	1.02	4.46	0.001	0.004	0.000
A-BH-1	A-BH-1	99.9%	0.00005	5400	2.45	10.7	0.002	0.011	0.001
A-BM-1-6	A-BM-1-6	99.9%	0.00005	6000	2.67	11.7	0.003	0.012	0.001
B-FB-1	B-FB-1	99.9%	0.0000003	3800	0.008	0.036	0.000008	0.00004	0.000
B-GB-1	B-GB-1	99.9%	0.0000003	3800	0.008	0.036	0.000008	0.00004	0.000
B-WB-1	B-WB-1	99.9%	0.0000003	3800	0.008	0.036	0.000008	0.00004	0.000
B-BM-1	B-BM-1	99.9%	0.0000001	10000	0.008	0.035	0.00001	0.00003	0.000
Totals					-	6834	-	6.8	0.6

Methodology

Emission Rate in lbs/hr (after controls) = (grains/cub. ft.) (sq. ft.) ((cub. ft./min.)/sq. ft.) (60 min/hr) (lb/7000 grains)

Emission Rate in tons/yr = (lbs/hr) (8760 hr/yr) (ton/2000 lb)

Emission Rate in lbs/hr (before controls) = Emission Rate (after controls): (lbs/hr)/(1-control efficiency)

Emission Rate in tons/yr = (lbs/hr) (8760 hr/yr) (ton/2000 lb)

HAPs based on 10% of PM as Nickel

*Baghouse efficiencies at A-CS-(3.4) and A-CS-2 change from 95.5% to 99.9% in this renewal, per application. Original grain loadings adjusted by: $[(1 - 99.9%) / (1 - 95.5\%)]$

PSD Minor Limits; PM, PM₁₀
326 IAC 6-3-2 Limits

Desc. #	Yr. of Const	Control ID	Unit ID	Emission Unit Name	Process Wt. Rate (lb/hr)	Process Wt. Rate (ton/hr)	6-3-2 PM Allowable (lb/hr)
a	70	A-DC-1	A-CS-(3,4)	(2) 2' x 20' electric calciners	600	0.30	1.83
b	95	A-DC-1	A-CS-2	Indirect fired calciner	1200	0.60	2.91
c	73	A-SD-1	A-SD-1	20' dryer	3000	1.50	4.84
d	73	A-BM-7	A-BM-7	Ball milling unit	1400	0.70	3.23
e	73	A-GB-1	A-GB-1	Batch weigh-up	2000	1.00	4.10
f	70	A-WU-1	A-WU-1	Weigh up	100	0.05	0.55
g	84	B-SD-1	B-SD-1	17.5' dryer	2000	1.00	3.69
h	84	B-SD-2	B-SD-2	9.5' anhydrous spray dryer	580	0.29	1.79
i	70	B-C-1	B-C-1	5' x 40' direct-fired calciner	1500	0.75	3.38
j	70	C-SD-1	C-SD-1	16' spray-dryer	1500	0.75	3.38
k	84	C-GB-1	C-GB-1	Milling (4 units)	500	0.25	1.62
l	80	C-WU-1	C-WU-1	Batch weigh-up	2000	1.00	3.69
m	84	C-GB-2	C-GB-2	Batch weigh-up	200	0.10	0.88
n	96	C-CS-6	C-CS-6	3' x 26' indirect-fired calciner	1200	0.60	2.91
o	96	C-CS-7	C-CS-7	15' x 26' electric calciner	200	0.10	0.88
p	93	A-BL-1	A-BL-1	Blending/packaging	2000	1.00	3.69
q	95	A-BH-1	A-BH-1	Bulk handling	1600	0.80	3.53
r	73	A-BM-(1-6)	A-BM-(1-6)	Ball milling (6 units)	500	0.25	1.62
s	89	B-FB-1	B-FB-1	Fire bead screening (3 units)	500	0.25	1.62
t	84	B-GB-1	B-GB-1	Blending	500	0.25	1.62
u	80	B-WB-1	B-WB-1	Wet ball mill	667	0.33	1.96
v	92	B-BM-1	B-BM-1	Ball Mill	580	0.29	1.79

Limited Totals (lb/hr)	55.5
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Limited Totals (ton/yr)	243.1
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Methodology

Emission Rate in lbs/hr (after controls) = (grains/cub. ft.) (sq. ft.) ((cub. ft./min.)/sq. ft.) (60 min/hr) (lb/7000 grains)

Emission Rate in tons/yr = (lbs/hr) (8760 hr/yr) (ton/2000 lb)

Emission Rate in lbs/hr (before controls) = Emission Rate (after controls): (lbs/hr)/(1-control efficiency)

Emission Rate in tons/yr = (lbs/hr) (8760 hr/yr) (ton/2000 lb)

HAPs based on 10% of PM as Nickel

Natural Gas Combustion Only
MM BTU/HR <100
Small Industrial Boilers: Indirect Heating

Heat Input Capacity
 MMBtu/hr
 (C-HB-1)
 6.39

Potential Throughput
 MMCF/yr
 56

Emission Factor in lb/MMCF	Pollutant						
	PM*	PM ₁₀ *	PM _{2.5} *	SO ₂	NO _x	VOC	CO
	1.90	7.60	7.60	0.600	100 **see below	5.50	84.0
Potential Emission in tons/yr	0.053	0.213	0.213	0.017	2.80	0.154	2.35

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10. PM2.5 is assumed to be equal to PM10.

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

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Boiler total heat input = 5.25 + 0.72 + 0.42 = 6.39 mmBtu/hr

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

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 (SUPPLEMENT D 3/98)

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

See page 3 for HAPs emissions calculations.

Appendix A: Emission Calculations
 Source: Powder Processing, Valparaiso
 Part 70, Second Renewal:T127-29461-00021
 Reviewer: James Mackenzie
 Date:1-05-11

MM BTU/HR <100
Small Industrial Boilers: Indirect Heating
HAPs Emissions

HAPs - Organics					
Emission Factor in lb/MMcf	Benzene 0.00210	Dichlorobenzen 0.00120	Formaldehyde 0.07500	Hexane 1.80000	Toluene 0.00340
Potential Emission in tons/yr	0.000059	0.000034	0.002099	0.050379	0.000095

HAPs - Metals						
Emission Factor in lb/MMcf	Lead 0.0005	Cadmium 0.0011	Chromium 0.0014	Manganese 0.0004	Nickel 0.0021	Total
Potential Emission in tons/yr	0.00001	0.00003	0.00004	0.00001	0.00006	0.053

Methodology is the same as page 2.

The five highest organic and metal HAPs emission factors are provided above.
 Additional HAPs emission factors are available in AP-42, Chapter 1.4.

Natural Gas Combustion Only
MM BTU/HR <100
Small Industrial Boiler
MM BTU/HR <100

Unit ID	Individual Heat Input Capacity (MMBtu/hr)	# of Units	Total Heat Input Capacity (MMBtu/hr)
AM1-AM3	2.0	3	6.0000
SH1-SH24	0.3	24	7.2000
SH25	0.03	1	0.0300
SH26,SH27	0.33	2	0.6600
AM4	2.48	1	2.4800
space htrs.	0.3	11	3.3000
SH28, SH29	0.075	2	0.1500
HW1	0.72	1	0.7200
HW2	0.42	1	0.4200
AM5	1.65	1	1.6500
space htrs.	0.3	2	0.6000
SH30-SH32	0.075	3	0.2250
SH33	0.625	1	0.6250
SH34	0.938	1	0.9380
Total	10.24	54	24.9980

Heat Input Capacity
MMBtu/hr

Potential Throughput
MMCF/yr

25.0
17568 21.1

219

Emission Factor in lb/MMCF	Pollutant						
	PM*	PM ₁₀ *	PM _{2.5} *	SO ₂	NO _x	VOC	CO
	1.90	7.60	7.60	0.600	100	5.50	84.0
					**see below		
Potential Emission in tons/yr	0.208	0.832	0.832	0.066	10.949	0.602	9.197

*PM emission factor is filterable only. PM₁₀ emission factor is filterable and condensable. PM_{2.5} is assumed to be equal to PM₁₀.

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

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000,000 Btu

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 1-03-006-02 (SUPPLEMENT D 3/98)

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

See below for HAPs emissions calculations.

**Natural Gas Combustion Only
 MM BTU/HR <100
 Small Industrial Boiler
 HAPs Emissions**

HAPs - Organics					
	Benzene	Dichloro benzene	Formalde hyde	Hexane	Toluene
Emission Factor in lb/MMc	0.00210	0.00120	0.07500	1.80000	0.00340
Potential Emission in tons	0.000230	0.000131	0.008212	0.197084	0.000372

HAPs - Metals						
	Lead	Cadmium	Chromium	Manganese	Nickel	Total
Emission Factor in lb/MMc	0.0005	0.0011	0.0014	0.0004	0.0021	
Potential Emission in tons	0.00005	0.00012	0.00015	0.00004	0.00023	0.207

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

Internal Combustion Engines - Natural Gas

Emissions calculated based on heat input capacity (MMBtu/hr)

Heat Input Capacity
 MM Btu/hr

0.680

	Pollutant						
	PM*	PM ₁₀ *	PM _{2.5}	SO ₂	NO _x	VOC	CO
Emission Factor in lb/MMBtu	0.010	0.04831	0.04831	0.001	3.17	0.120	0.386
Potential Emission in tons/yr	0.030	0.144	0.144	0.002	9.44	0.357	1.15

Methodology

Emission Factors are from AP42 (Supplement B 08/00), Table 3.2-1 (as per 127-17568-00021)

Emission (tons/yr) = [Heat input rate (MMBtu/hr) x Emission Factor (lb/MMBtu)] * 8760 hr/yr / (2,000 lb/ton)

Emission (tons/yr) = [Potential Throughput (hp-hr/yr) x Emission Factor (lb/hp-hr)] / (2,000 lb/ton)

*PM emission factor (only condensable available), PM₁₀ = PM_{2.5} = {PM(condensable) + PM₁₀(filterable)}



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
Toll Free (800) 451-6027
www.idem.IN.gov

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

TO: Brad Monton
Powder Processing Technology, LLC
5103 Evans Ave
Valparaiso, IN 46383

DATE: May 23, 2011

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

SUBJECT: Final Decision
Title V - Renewal
127-29461-00021

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

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

A copy of the final decision and supporting materials has also been sent via standard mail to:
Paul Dubenetzky (Keramida Environmental, Inc)
OAQ Permits Branch Interested Parties List

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

Final Applicant Cover letter.dot 11/30/07



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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Mitchell E. Daniels Jr.
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Thomas W. Easterly
Commissioner

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Toll Free (800) 451-6027
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May 23, 2011

TO: Valparaiso Public Library

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

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

Applicant Name: Powder Processing Technology, LLC
Permit Number: 127-29461-00021

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

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

Enclosures
Final Library.dot 11/30/07

Mail Code 61-53

IDEM Staff	MIDENNEY 5/23/2011 Powder Processing and Technology, L.L.C. 127-29461-00021 (final)		AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING	
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2		Laurence A. McHugh Barnes & Thornburg 100 North Michigan South Bend IN 46601-1632 (Affected Party)										
3		Porter County Board of Commissioners 155 Indiana Ave, Ste 205 Valparaiso IN 46383 (Local Official)										
4		Valparaiso Public Library 103 Jefferson St Valparaiso IN 46383-4899 (Library)										
5		Porter County Health Department 155 Indiana Ave, Suite 104 Valparaiso IN 46383-5502 (Health Department)										
6		Shawn Sobocinski 3229 E. Atlanta Court Portage IN 46368 (Affected Party)										
7		Mr. Ed Dybel 2440 Schrage Avenue Whiting IN 46394 (Affected Party)										
8		Ms. Carolyn Marsh Lake Michigan Calumet Advisory Council 1804 Oliver St Whiting IN 46394-1725 (Affected Party)										
9		Mr. Dee Morse National Park Service 12795 W Alameda Pky, P.O. Box 25287 Denver CO 80225-0287 (Affected Party)										
10		Valparaiso City Council and Mayors Office 166 Lincolnway Valparaiso IN 46383-5524 (Local Official)										
11		Mr. Joseph Virgil 128 Kinsale Avenue Valparaiso IN 46385 (Affected Party)										
12		Mark Coleman 9 Locust Place Ogden Dunes IN 46368 (Affected Party)										
13		Mr. Chris Hernandez Pipefitters Association, Local Union 597 8762 Louisiana St., Suite G Merrillville IN 46410 (Affected Party)										
14		Eric & Sharon Haussman 57 Shore Drive Ogden Dunes IN 46368 (Affected Party)										
15		Mr. Paul Dubenetzky Keramida Environmental, Inc. 401 N College Avenue Indianapolis IN 46202 (Consultant)										

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2		Gitte Laasby Post Tribune 1433 E. 83rd Ave Merrillville IN 46410 (Affected Party)										
3		Mark Zeltwanger 26545 CR 52 Nappanee IN 46550 (Affected Party)										
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