



Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
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TO: Interested Parties / Applicant
DATE: December 27, 2007
RE: US Mineral Products / 069-18676-00021
FROM: Matthew Stuckey, Deputy 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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New Source Review and Part 70 Operating Permit Renewal OFFICE OF AIR QUALITY

**U.S. Mineral Products Company (d/b/a Isolatek International)
701 North Broadway Street
Huntington, Indiana 46750**

(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. This permit also addresses certain new source review requirements for existing equipment and is intended to fulfill the new source review procedures pursuant to 326 IAC 2-7-10.5, applicable to those conditions.

Operation Permit No.: T 069-18676-00021	
Issued by: Matthew Stuckey, Deputy Branch Chief Permits Branch Office of Air Quality	Issuance Date: December 27, 2007 Expiration Date: December 27, 2012

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SECTION A

SOURCE SUMMARY

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

A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)] [326 IAC 2-7-1(22)]

The Permittee owns and operates an acoustic and thermal insulation manufacturing source.

Source Address:	701 North Broadway Street, Huntington, Indiana 46750
Mailing Address:	P.O. Box 5006, Huntington, Indiana 46750
General Source Phone Number:	(260)356-2040
SIC Code:	3296
County Location:	Huntington
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Part 70 Operating Permit Program Major Source, under PSD Rules Major Source, Section 112 of the Clean Air Act

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:

- (a) Two (2) short stack cupolas, identified as EU#1 and EU#2, constructed before 1960, equipped with a baghouse, identified as CE#1, exhausted to Stack #1, capacity: 5.0 tons of melt per hour and 1.5 tons of coke feed per hour, each.
- (b) Two (2) blowchambers, identified as EU#3 and EU#4, constructed before 1978, each equipped with a screenhouse, identified as CE#3 and CE#4, capacity: 4.0 tons of molten mineral feed per hour, each.
- (c) One (1) Cafco Process Line, identified as EU#41, originally constructed in 1980, with all particulate emissions exhausted to a baghouse, identified as CE#9, exhausted to Stack #9, with a capacity of 12.0 tons of blended product per hour, consisting of the following:
 - (1) Five (5) permanent hoppers, identified as EU#14 through EU#18.
 - (2) One (1) portable hopper, identified as EU#27.
 - (3) One (1) live bottom hopper, identified as EU#19.
 - (4) One (1) transfer auger, identified as EU#23.
 - (5) One (1) mixer, identified as EU#24.
 - (6) One (1) granulator, identified as EU#20.
 - (7) One (1) automatic bagger, identified as EU#21, constructed in 2005, equipped with its own baghouse, identified as CE#10, with an outside exhaust.
 - (8) One (1) dedust oil tank, identified as EU#34, constructed prior to 1980, exhausted to Stack #17, capacity: 7,000 gallons.

- (9) One (1) dedust oil tank, identified as EU#38, constructed in 1997, exhausted to Stack #21, capacity: 8,000 gallons.
- (d) One (1) front end mineral wool bagger, identified as EU#7, constructed in 1987, equipped with a baghouse, identified as CE#5, exhausted to Stack #5, capacity: 5.0 tons of bagged mineral wool per hour.
- (e) One (1) batch blender, identified as EU#12, constructed in 1993, equipped with a baghouse, identified as CE#6, exhausted to Stack #6, capacity: 5.0 tons of blended product per hour.
- (f) One (1) ribbon blender, identified as EU#31, constructed in 1988, equipped with a baghouse, identified as CE#6, exhausted to Stack #6, capacity: 2.0 tons of dry powdered binders per year.

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) mineral wool baler, identified as EU#5, constructed in 2005, exhausted inside the building, capacity: 12.0 tons of baled mineral wool per hour. [326 IAC 6-3-2]
- (b) One (1) mineral wool bin, identified as EU#8, constructed in 1983 or 1984, equipped with a pneumatic conveyor that incorporates a totally enclosed air recycled system, capacity: 10.0 tons of mineral wool per hour. [326 IAC 6-3-2]
- (c) One (1) gypsum silo, identified as EU#9, constructed prior to 1980, equipped with a baghouse, identified as CE#8, exhausted to Stack #8, capacity: 54.0 tons of gypsum per hour. [326 IAC 6-3-2] [326 IAC 2-2]
- (d) One (1) chipped gypsum silo, identified as EU#10, constructed in 1991, equipped with a baghouse, identified as CE#8, exhausted to Stack #8, capacity: 54.0 tons of gypsum per hour. [326 IAC 6-3-2] [326 IAC 2-2]
- (e) One (1) cement silo, identified as EU#11, constructed in 1990, equipped with a baghouse, identified as CE#7, exhausted to Stack #7, capacity: 54.0 tons of Portland cement per hour. [326 IAC 6-3-2] [326 IAC 2-2]

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, T 069-18676-00021, 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 13-15-3-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, 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]

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. The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34). 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) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by the "responsible official" of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
- (c) The "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 July 1 of each year to:

Indiana Department of Environmental Management
Compliance 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 the certification by the "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) If required by specific condition(s) in Section D of this permit, the Permittee shall maintain and implement Preventive Maintenance Plans (PMPs) 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.
- (b) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMPs do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.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 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 Section), or
Telephone Number: 317-233-0178 (ask for Compliance Section)
Facsimile Number: 317-233-6865

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

Indiana Department of Environmental Management
Compliance 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 the certification by the "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.
 - (h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report.

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 T 069-18676-00021 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 combined permit, all previous registrations and permits are superseded by this combined new source review and 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 Deviations from Permit Requirements and Conditions [326 IAC 2-7-5(3)(C)(ii)]

- (a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provisions), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

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

using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. 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.

The Quarterly Deviation and Compliance Monitoring Report does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

B.16 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 the certification by the "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.17 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 the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, 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 in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.18 Permit Amendment or Modification [326 IAC 2-7-11] [326 IAC 2-7-12] [40 CFR 72]

- (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
Permits Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003

Indianapolis, Indiana 46204-2251

Any such application shall be certified by the "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.19 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 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.20 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
Permits 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, 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 the certification by the "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.21 Source Modification Requirement [326 IAC 2-7-10.5] [326 IAC 2-2-2] [326 IAC 2-3-2]

- (a) A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-7-10.5.
- (b) Any modification at an existing major source is governed by the requirements of 326 IAC 2-2-2 and/or 326 IAC 2-3-2.

B.22 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.23 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
Permits Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

The application which shall be submitted by the Permittee does require the certification by the "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.24 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.25 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 one hundred (100) pounds per hour and the methods in 326 IAC 6-3-2(b) through (d) do not apply shall not exceed five hundred fifty-one thousandths (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 5-1-3 (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. 326 IAC 4-1-3 (a)(2)(A) and (B) are not federally enforceable.
- C.4 Incineration [326 IAC 4-2] [326 IAC 9-1-2]
The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and 326 IAC 9-1-2.
- 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 Stack Height [326 IAC 1-7]
The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted. The provisions of 326 IAC 1-7-1(3), 326 IAC 1-7-2, 326 IAC 1-7-3(c) and (d), 326 IAC 1-7-4, and 326 IAC 1-7-5(a), (b), and (d) are not federally enforceable.
- C.7 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]
(a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least two hundred sixty (260) linear feet on pipes or one hundred sixty (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
Asbestos Section, Office of Air Quality
100 North Senate Avenue
MC 61-52 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 by the "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 seventy-five hundredths (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 Accredited 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 Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Accredited Asbestos inspector is not federally enforceable.

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

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

- (a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, 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 certification by the "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 certification by the "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.9 Compliance Requirements [326 IAC 2-1.1-11]

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

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

C.10 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. If due to circumstances beyond its control, that equipment cannot be installed and operated within ninety (90) days, 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 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 the certification by the "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.11 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]

Any monitoring or testing required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, 40 CFR 60, Appendix B, 40 CFR 63, or other approved methods as specified in this permit.

C.12 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.13 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

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

- (a) The Permittee prepared and submitted written emergency reduction plans (ERPs) consistent with safe operating procedures on April 3, 2000.
- (b) Upon direct notification by IDEM, OAQ that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.14 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.15 Response to Excursions or Exceedances [326 IAC 2-7-5] [326 IAC 2-7-6]

- (a) Upon detecting an excursion or exceedance, the Permittee shall 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 emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions may include, but are not limited to, the following:
 - (1) initial inspection and evaluation

- (2) recording that operations returned 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 within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.
- (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;
 - (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 maintain the following records:
- (1) monitoring data;
 - (2) monitor performance data, if applicable; and
 - (3) corrective actions taken.

C.16 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 take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred twenty (120) 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 the certification by the "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.17 Emission Statement [326 IAC 2-7-5(3)(C)(iii)] [326 IAC 2-7-5(7)] [326 IAC 2-7-19(c)] [326 IAC 2-6]

- (a) Pursuant to 326 IAC 2-6-3(a)(1), the Permittee shall submit by July 1 of each year an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:

- (1) Indicate estimated actual emissions of all pollutants listed in 326 IAC 2-6-4(a);
- (2) Indicate estimated actual emissions of regulated pollutants as defined by 326 IAC 2-7-1(32) ("Regulated pollutant, which is used only for purposes of Section 19 of this rule") from the source, for purpose of fee assessment.

The statement must be submitted to:

Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Quality
100 North Senate Avenue
MC 61-50 IGCN 1003
Indianapolis, Indiana 46204-2251

The emission statement does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) The emission statement 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.18 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6] [326 IAC 2-2] [326 IAC 2-3]

- (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, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.
- (c) If there is a "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(II)) at an existing emissions unit other than a project at a source with a Plantwide Applicability Limitation (PAL), which is not part of a "major modification" (as defined in 326 IAC 2-2-1(ee) and/or 326 IAC 2-3-1(z)) and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1(rr) and/or 326 IAC 2-3-1(mm)), the Permittee shall comply with the following:
 - (1) Before beginning actual construction of the "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(II)) at an existing emissions unit, document and maintain the following records:
 - (A) A description of the project.
 - (B) Identification of any emissions unit whose emissions of a regulated new source review pollutant could be affected by the project.
 - (C) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including:
 - (i) Baseline actual emissions;

- (ii) Projected actual emissions;
 - (iii) Amount of emissions excluded under section 326 IAC 2-2-1(rr)(2)(A)(iii) and/or 326 IAC 2-3-1(mm)(2)(A)(iii); and
 - (iv) An explanation for why the amount was excluded, and any netting calculations, if applicable.
- (2) Monitor the emissions of any regulated NSR pollutant that could increase as a result of the project and that is emitted by any existing emissions unit identified in (1)(B) above; and
 - (3) Calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of five (5) years following resumption of regular operations after the change, or for a period of ten (10) years following resumption of regular operations after the change if the project increases the design capacity of or the potential to emit that regulated NSR pollutant at the emissions unit.

C.19 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] [326 IAC 2-2] [326 IAC 2-3]

- (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. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, 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) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (e) 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.
- (f) If the Permittee is required to comply with the record keeping provisions of (c) in Section C - General Record Keeping Requirements for any "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(II)) at an existing emissions unit, and the project meets the following criteria, then the Permittee shall submit a report to IDEM, OAQ:
 - (1) The annual emissions, in tons per year, from the project identified in (c)(1) in Section C - General Record Keeping Requirements exceed the baseline actual emissions, as

documented and maintained under Section C - General Record Keeping Requirements (c)(1)(C)(i), by a significant amount, as defined in 326 IAC 2-2-1(xx) and/or 326 IAC 2-3-1(qq)), for that regulated NSR pollutant, and

- (2) The emissions differ from the preconstruction projection as documented and maintained under Section C - General Record Keeping Requirements (c)(1)(C)(ii).
- (g) The report for project at an existing emissions unit shall be submitted within sixty (60) days after the end of the year and contain the following:
- (1) The name, address, and telephone number of the major stationary source.
 - (2) The annual emissions calculated in accordance with (c)(2) and (3) in Section C - General Record Keeping Requirements.
 - (3) The emissions calculated under the actual-to-projected actual test stated in 326 IAC 2-2-2(d)(3) and/or 326 IAC 2-3-2(c)(3).
 - (4) Any other information that the Permittee deems fit to include in this report.

Reports required in this part shall be submitted to:

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

- (h) The Permittee shall make the information required to be documented and maintained in accordance with (c) in Section C - General Record Keeping Requirements available for review upon a request for inspection by IDEM, OAQ. The general public may request this information from the IDEM, OAQ under 326 IAC 17.1.

Stratospheric Ozone Protection

C.20 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 the standards for recycling and emissions reduction:

- (a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.
- (b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
- (c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

SECTION D.1 FACILITY OPERATION CONDITIONS

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

- (a) Two (2) short stack cupolas, identified as EU#1 and EU#2, constructed before 1960, equipped with a baghouse, identified as CE#1, exhausted to Stack #1, capacity: 5.0 tons of melt per hour and 1.5 tons of coke feed per hour, each.

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

National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements [326 IAC 2-7-5(1)]

D.1.1 General Provisions Relating to NESHAP Subpart DDD [326 IAC 20-1] [40 CFR Part 63, Subpart A]

Pursuant to 40 CFR 63.1194, the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-1-1 for the two (2) cupolas, identified as EU#1 and EU#2, as specified in Table 1 of 40 CFR Part 63, Subpart DDD in accordance with schedule in 40 CFR 63, Subpart DDD.

D.1.2 NESHAP Subpart DDD Requirements [40 CFR Part 63, Subpart DDD] [326 IAC 20-46]

Pursuant to CFR Part 63, Subpart DDD, the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart DDD, which are incorporated by reference as 326 IAC 20-46 for the two (2) cupolas, identified as EU#1 and EU#2, as specified as follows.

§ 63.1175 *What is the purpose of this subpart?*

This subpart establishes national emission standards for hazardous air pollutants emitted from existing, new, and reconstructed cupolas and curing ovens at facilities that produce mineral wool.

§ 63.1176 *Where can I find definitions of key words used in this subpart?*

The definitions of key words used in this subpart are in the Clean Air Act (Act), in §63.2 of the general provisions in subpart A of this part, and in §63.1196 of this subpart.

§ 63.1177 *Am I subject to this subpart?*

You are subject to this subpart if you own or operate an existing, new, or reconstructed mineral wool production facility that is located at a plant site that is a major source of hazardous air pollutant (HAP) emissions, meaning the plant emits or has the potential to emit any single HAP at a rate of 9.07 megagrams (10 tons) or more per year or any combination of HAPs at a rate of 22.68 megagrams (25 tons) or more per year.

Standards

§ 63.1178 *For cupolas, what standards must I meet?*

(a) You must control emissions from each cupola as follows:

(1) Limit emissions of particulate matter (PM) from each existing, new, or reconstructed cupola to 0.05 kilograms (kg) of PM per megagram (MG) (0.10 pound [lb] of PM per ton) of melt or less.

(b) You must meet the following operating limits for each cupola:

(1) Begin within one hour after the alarm on a bag leak detection system sounds, and complete in a timely manner, corrective actions as specified in your operations, maintenance, and monitoring plan required by §63.1187 of this subpart.

(2) When the alarm on a bag leak detection system sounds for more than five percent of the total operating time in a six-month reporting period, develop and implement a written quality

improvement plan (QIP) consistent with the compliance assurance monitoring requirements of §64.8(b)–(d) of 40 CFR part 64.

§ 63.1180 When must I meet these standards?

(a) *Existing cupolas and curing ovens.* You must install any control devices and monitoring equipment necessary to meet the standards in this subpart, complete performance testing, and demonstrate compliance with all requirements of this subpart no later than the following:

(2) June 3, 2003 if you apply for and receive a one-year extension under section 112(i)(3)(B) of the Act.

(c) You must comply with the standards in §§63.1178 and 63.1179 of this subpart on and after the dates in paragraphs (a) and (b) of this section.

(d) You must comply with these standards at all times except during periods of startup, shutdown, or malfunction.

Compliance With Standards

§ 63.1181 How do I comply with the particulate matter standards for existing, new, and reconstructed cupolas?

To comply with the PM standards, you must meet all of the following:

(a) Install, adjust, maintain, and continuously operate a bag leak detection system for each fabric filter.

(b) Do a performance test as specified in §63.1188 of this subpart and show compliance with the PM emission limits while the bag leak detection system is installed, operational, and properly adjusted.

(c) Begin corrective actions specified in your operations, maintenance, and monitoring plan required by §63.1187 of this subpart within one hour after the alarm on a bag leak detection system sounds. Complete the corrective actions in a timely manner.

(d) Develop and implement a written QIP consistent with compliance assurance monitoring requirements of 40 CFR 64.8(b) through (d) when the alarm on a bag leak detection system sounds for more than five percent of the total operating time in a six-month reporting period.

Additional Monitoring Information

§ 63.1184 What do I need to know about the design specifications, installation, and operation of a bag leak detection system?

A bag leak detection system must meet the following requirements:

(a) The bag leak detection system must be certified by the manufacturer to be capable of detecting PM emissions at concentrations of 10 milligrams per actual cubic meter (0.0044 grains per actual cubic foot) or less.

(b) The sensor on the bag leak detection system must provide output of relative PM emissions.

(c) The bag leak detection system must have an alarm that will sound automatically when it detects an increase in relative PM emissions greater than a preset level.

(d) The alarm must be located in an area where appropriate plant personnel will be able to hear it.

(e) For a positive-pressure fabric filter, each compartment or cell must have a bag leak detector. For a negative-pressure or induced-air fabric filter, the bag leak detector must be installed downstream of the fabric filter. If multiple bag leak detectors are required (for either type of fabric filter), detectors may share the system instrumentation and alarm.

(f) Each triboelectric bag leak detection system must be installed, operated, adjusted, and maintained so that it follows EPA's "Fabric Filter Bag Leak Detection Guidance" (EPA-454/R-98-015, September 1997). Other bag leak detection systems must be installed, operated, adjusted, and maintained so that they follow the manufacturer's written specifications and recommendations.

(g) At a minimum, initial adjustment of the system must consist of establishing the baseline output in both of the following ways:

(1) Adjust the range and the averaging period of the device.

(2) Establish the alarm set points and the alarm delay time.

(h) After initial adjustment, the range, averaging period, alarm set points, or alarm delay time may not be adjusted except as specified in the operations, maintenance, and monitoring plan required by §63.1187 of this subpart. In no event may the range be increased by more than 100 percent or decreased by more than 50 percent over a 365 day period unless a responsible official as defined in §63.2 of the general provisions in subpart A of this part certifies in writing to the Administrator that the fabric filter has been inspected and found to be in good operating condition.

§ 63.1186 How may I change the compliance levels of monitored parameters?

You may change control device and process operating parameter levels established during performance tests and used to monitor compliance if you do the following:

(a) You must notify the Administrator of your desire to expand the range of a control device or process operating parameter level.

(b) Upon approval from the Administrator, you must conduct additional performance tests at the proposed new control device or process operating parameter levels. Before operating at these levels, the performance test results must verify that, at the new levels, you comply with the emission limits in §§63.1178 and 63.1179 of this subpart.

§ 63.1187 What do I need to know about operations, maintenance, and monitoring plans?

(a) An operations, maintenance, and monitoring plan must be submitted to the Administrator for review and approval as part of your application for the title V permit.

(b) The operations, maintenance, and monitoring plan must include the following:

(1) Process and control device parameters you will monitor to determine compliance, along with established operating levels or ranges for each process or control device.

(2) A monitoring schedule.

(3) Procedures for properly operating and maintaining control devices used to meet the standards in §§63.1178 and 63.1179 of this subpart. These procedures must include an inspection of each incinerator at least once per year. At a minimum, you must do the following as part of an incinerator inspection:

(i) Inspect all burners, pilot assemblies, and pilot sensing devices for proper operation. Clean pilot sensor if necessary.

(ii) Ensure proper adjustment of combustion air, and adjust if necessary.

(iii) Inspect, when possible, all internal structures (such as baffles) to ensure structural integrity per the design specifications.

(iv) Inspect dampers, fans, and blowers for proper operation.

- (v) Inspect motors for proper operation.
 - (vi) Inspect, when possible, combustion chamber refractory lining. Clean, and repair or replace lining if necessary.
 - (vii) Inspect incinerator shell for proper sealing, corrosion, and/or hot spots.
 - (viii) For the burn cycle that follows the inspection, document that the incinerator is operating properly and make any necessary adjustments.
 - (ix) Generally observe whether the equipment is maintained in good operating condition.
 - (x) Complete all necessary repairs as soon as practicable.
- (4) Procedures for keeping records to document compliance.
- (5) Corrective actions you will take if process or control device parameters vary from the levels established during performance testing. For bag leak detection system alarms, example corrective actions that may be included in the operations, maintenance, and monitoring plan include:
- (i) Inspecting the fabric filter for air leaks, torn or broken bags or filter media, or any other condition that may cause an increase in emissions.
 - (ii) Sealing off defective bags or filter media.
 - (iii) Replacing defective bags or filter media, or otherwise repairing the control device.
 - (iv) Sealing off a defective fabric filter compartment.
 - (v) Cleaning the bag leak detection system probe, or otherwise repairing the bag leak detection system.
 - (vi) Shutting down the process producing the particulate emissions.

Performance Tests and Methods

§ 63.1188 What performance test requirements must I meet?

You must meet the following performance test requirements:

- (a) All monitoring systems and equipment must be installed, operational, and properly calibrated before the performance tests.
- (b) Do a performance test, consisting of three test runs, for each cupola and curing oven subject to this subpart at the maximum production rate to demonstrate compliance with each of the applicable emission limits in §§63.1178 and 63.1179 of this subpart.
- (c) Measure emissions of PM from each existing cupola.
- (f) Measure emissions at the outlet of the control device if complying with a numerical emission limit for PM, CO, or formaldehyde, or at the inlet and outlet of the control device if complying with a percent reduction emission limit for CO or formaldehyde.
- (g) To determine the average melt rate, measure and record the amount of raw materials, excluding coke, charged into and melted in each cupola during each performance test run. Determine and record the average hourly melt rate for each performance test run. Determine and record the arithmetic average of the average hourly melt rates associated with the three performance test runs. The average hourly melt rate of the three performance test runs is used to determine compliance with the applicable emission limits.

(h) Compute and record the average emissions of the three performance test runs and use the equations in §63.1190 of this subpart to determine compliance with the applicable emission limits.

(i) Comply with control device and process operating parameter monitoring requirements for performance testing as specified in this subpart.

§ 63.1189 What test methods do I use?

You must use the following test methods to determine compliance with the applicable emission limits:

(a) Method 1 in appendix A to part 60 of this chapter for the selection of the sampling port locations and number of sampling ports.

(b) Method 2 in appendix A to part 60 of this chapter for stack gas velocity and volumetric flow rate.

(c) Method 3 or 3A in appendix A to part 60 of this chapter for oxygen and carbon dioxide for diluent measurements needed to correct the concentration measurements to a standard basis.

(d) Method 4 in appendix A to part 60 of this chapter for moisture content of the stack gas.

(e) Method 5 in appendix A to part 60 of this chapter for the concentration of PM. Each PM test run must consist of a minimum run time of three hours and a minimum sample volume of 3.75 dscm (135 dscf).

§ 63.1190 How do I determine compliance?

(a) Using the results of the performance tests, you must use the following equation to determine compliance with the PM emission limit:

$$E = \frac{C \times Q \times K_1}{P}$$

where:

E = Emission rate of PM, kg/Mg (lb/ton) of melt.

C = Concentration of PM, g/dscm (gr/dscf).

Q = Volumetric flow rate of exhaust gases, dscm/hr (dscf/hr).

K_1 = Conversion factor, 1 kg/1,000 g (1 lb/7,000 gr).

P = Average melt rate, Mg/hr (ton/hr).

Notification, Recordkeeping, and Reporting

§ 63.1191 What notifications must I submit?

You must submit written notifications to the Administrator as required by §63.9(b)–(h) of the general provisions in subpart A of this part. These notifications include, but are not limited to, the following:

(a) Notification that the following types of sources are subject to the standard:

(2) A source that has an initial startup before the effective date of the standard.

(d) Notification of a performance test at least 60 calendar days before the performance test is scheduled to begin.

(e) Notification of compliance status.

§ 63.1192 What recordkeeping requirements must I meet?

You must meet the following recordkeeping requirements:

(a) Maintain files of all information required by §63.10(b) of the general provisions in subpart A of this part, including all notifications and reports.

(b) Maintain records of the following information also:

(1) Cupola production (melt) rate (Mg/hr (tons/hr) of melt).

(2) All bag leak detection system alarms. Include the date and time of the alarm, when corrective actions were initiated, the cause of the alarm, an explanation of the corrective actions taken, and when the cause of the alarm was corrected.

(3) The free-formaldehyde content of each resin lot and the binder formulation, including formaldehyde content, of each binder batch used in the manufacture of bonded products.

(4) Incinerator operating temperature and results of incinerator inspections. For all periods when the average temperature in any three-hour block period fell below the average temperature established during the performance test, and all periods when the inspection identified incinerator components in need of repair or maintenance, include the date and time of the problem, when corrective actions were initiated, the cause of the problem, an explanation of the corrective actions taken, and when the cause of the problem was corrected.

(c) Retain each record for at least five years following the date of each occurrence, measurement, corrective action, maintenance, record, or report. The most recent two years of records must be retained at the facility. The remaining three years of records may be retained off site.

(d) Retain records on microfilm, on a computer, on computer disks, on magnetic tape disks, or on microfiche.

(e) Report the required information on paper or on a labeled computer disk using commonly available and compatible computer software.

§ 63.1193 What reports must I submit?

You must prepare and submit reports to the Administrator as required by this subpart and §63.10 of the general provisions in subpart A of this part. These reports include, but are not limited to, the following:

(a) A performance test report, as required by §63.10(d)(2) of the general provisions in subpart A of this part, that documents the process and control equipment operating parameters during the test period, the test methods and procedures, the analytical procedures, all calculations, and the results of the performance tests.

(b) A startup, shutdown, and malfunction plan, as described in §63.6(e)(3) of the general provisions in subpart A of this part, that contains specific procedures for operating and maintaining the source during periods of startup, shutdown, and malfunction and a program of corrective action for malfunctioning process and control systems used to comply with the emission standards. In addition to the information required by §63.6(e)(3), your plan must include the following:

(1) Procedures to determine and record what caused the malfunction and when it began and ended.

(2) Corrective actions you will take if a process or control device malfunctions, including procedures for recording the actions taken to correct the malfunction or minimize emissions.

(3) An inspection and maintenance schedule for each process and control device that is consistent with the manufacturer's instructions and recommendations for routine and long-term maintenance.

(c) A report of each event as required by §63.10(b) of the general provisions in subpart A of this part, including a report if an action taken during a startup, shutdown, or malfunction is inconsistent with the procedures in the plan as described in §63.6(e)(3) of the general provisions in subpart A of this part.

(d) An operations, maintenance, and monitoring plan as specified in §63.1187 of this subpart.

(e) A semiannual report as required by §63.10(e)(3) of the general provisions in subpart A of this part if measured emissions exceed the applicable standard or a monitored parameter varies from the level established during performance testing. The report must contain the information specified in §63.10(c) of the general provisions, as well as the relevant records required by §63.1192(b) of this subpart.

(f) A semiannual report stating that no excess emissions or deviations of monitored parameters occurred during the reporting period as required by §63.10(e)(3)(v) of the general provisions in subpart A of this part if no deviations have occurred.

Other Requirements and Information

§ 63.1194 Which general provisions apply?

The general provisions in subpart A of this part define requirements applicable to all owners and operators affected by NESHAP in part 63. See Table 1 of this subpart for general provisions that apply (or don't apply) to you as an owner or operator subject to the requirements of this subpart.

§ 63.1195 Who implements and enforces this subpart?

(a) This subpart can be implemented and enforced by the U.S. EPA, or a delegated authority such as the applicable State, local, or Tribal agency. If the U.S. EPA Administrator has delegated authority to a State, local, or Tribal agency, then that agency, in addition to the U.S. EPA, has the authority to implement and enforce this subpart. Contact the applicable U.S. EPA Regional Office to find out if implementation and enforcement of this subpart is delegated to a State, local, or Tribal agency.

(b) In delegating implementation and enforcement authority of this subpart to a State, local, or Tribal agency under subpart E of this part, the authorities contained in paragraph (c) of this section are retained by the Administrator of U.S. EPA and cannot be transferred to the State, local, or Tribal agency.

(c) The authorities that cannot be delegated to State, local, or Tribal agencies are as specified in paragraphs (c)(1) through (4) of this section.

(1) Approval of alternatives to the requirements in §§63.1177 through 63.1180.

(2) Approval of major alternatives to test methods under §63.7(e)(2)(ii) and (f), as defined in §63.90, and as required in this subpart.

(3) Approval of major alternatives to monitoring under §63.8(f), as defined in §63.90, and as required in this subpart.

(4) Approval of major alternatives to recordkeeping and reporting under §63.10(f), as defined in §63.90, and as required in this subpart.

Table 1 to Subpart DDD of Part 63—Applicability of General Provisions (40 CFR Part 63, Subpart A) to Subpart DDD of Part 63

General provisions citation	Requirement	Applies to subpart DDD?	Explanation
63.1(a)(1)–(a)(4)	General Applicability	Yes	
63.1(a)(5)		No	[Reserved].
63.1(a)(6)–(a)(8)		Yes	
63.1(a)(9)		No	[Reserved].
63.1(a)(10)–(a)(14)		Yes	
63.1(b)	Initial Applicability Determination	Yes	
63.1(c)(1)	Applicability After Standard Established	Yes	
63.1(c)(2)		Yes	Some plants may be area sources.
63.1(c)(3)		No	[Reserved].
63.1(c)(4)–(c)(5)		Yes	
63.1(d)		No	[Reserved].
63.1(e)	Applicability of Permit Program	Yes	
63.2	Definitions	Yes	Additional definitions in §63.1196.
63.3	Units and Abbreviations	Yes	
63.4(a)(1)–(a)(3)	Prohibited Activities	Yes	
63.4(a)(4)		No	[Reserved].
63.4(a)(5)		Yes	
63.4(b)–(c)	Circumvention/Severability	Yes	
63.5(a)	Construction/Reconstruction Applicability	Yes	
63.5(b)(1)	Existing, New, Reconstructed Sources Requirements	Yes	
63.5(b)(2)		No	[Reserved].
63.5(b)(3)–(b)(6)		Yes	
63.5(c)		No	[Reserved].
63.5(d)	Application for Approval of Construction/Reconstruction	Yes	
63.5(e)	Approval of Construction/Reconstruction	Yes	
63.5(f)	Approval of Construction/Reconstruction Based on State Review	Yes	
63.6(a)	Compliance with Standards and Maintenance Applicability	Yes	
63.6(b)(1)–(b)(5)	New and Reconstructed Sources Dates	Yes	
63.6(b)(6)		No	[Reserved].
63.6(b)(7)		Yes	
63.6(c)(1)	Existing Sources Dates	Yes	§63.1180 specifies compliance dates.

General provisions citation	Requirement	Applies to subpart DDD?	Explanation
63.6(c)(2)		Yes	
63.6(c)(3)–(c)(4)		No	[Reserved].
63.6(c)(5)		Yes	
63.6(d)		No	[Reserved].
63.6(e)(1)–(e)(2)	Operation & Maintenance Requirements	Yes	§63.1187 specifies additional requirements.
63.6(e)(3)	Startup, Shutdown, and Malfunction Plan	Yes	
63.6(f)	Compliance with Emission Standards	Yes	
63.6(g)	Alternative Standard	Yes	
63.6(h)	Compliance with Opacity/VE Standards	No	Subpart DDD does not include VE/opacity standards.
63.6(i)(1)–(i)(14)	Extension of Compliance	Yes	§63.1180 specifies date.
63.6(i)(15)		No	[Reserved].
63.6(i)(16)		Yes	
63.6(j)	Exemption from Compliance	Yes	
63.7(a)	Performance Test Requirements Applicability	Yes	
63.7(b)	Notification	Yes	
63.7(c)	Quality Assurance/Test Plan	Yes	
63.7(d)	Testing Facilities	Yes	
63.7(e)	Conduct of Tests	Yes	§63.1188 specifies additional requirements.
63.7(f)	Alternative Test Method	Yes	
63.7(g)	Data Analysis	Yes	
63.7(h)	Waiver of Tests	Yes	
63.8(a)(1)	Monitoring Requirements Applicability	Yes	
63.8(a)(2)		No	Subpart DDD does not require CMS performance specifications.
63.8(a)(3)		No	[Reserved].
63.8(a)(4)		Yes	
63.8(b)	Conduct of Monitoring	Yes	
63.8(c)(1)–(c)(3)	CMS Operation/Maintenance	Yes	
63.8(c)(4)–(c)(8)		No	Subpart DDD does not require COMS or CMS performance specifications.
63.8(d)	Quality Control	No	Subpart DDD does not require a CMS quality control program.
63.8(e)	CMS Performance Evaluation	No	Subpart DDD does not require CMS performance evaluations.
63.8(f)(1)–(f)(5)	Alternative Monitoring Method	Yes	
63.8(f)(6)	Alternative to RATA Test	No	Subpart DDD does not require CEMS.
63.8(g)(1)	Data Reduction	Yes	

General provisions citation	Requirement	Applies to subpart DDD?	Explanation
63.8(g)(2)		No	Subpart DDD does not require COMS or CEMS.
63.8(g)(3)–(g)(5)		Yes	
63.9(a)	Notification Requirements Applicability	Yes	
63.9(b)	Initial Notifications	Yes	
63.9(c)	Request for Compliance Extension	Yes	
63.9(d)	New Source Notification for Special Compliance Requirements	Yes	
63.9(e)	Notification of Performance Test	Yes	
63.9(f)	Notification of VE/Opacity Test	No	Subpart DDD does not include VE/opacity standards.
63.9(g)	Additional CMS Notifications	No	Subpart DDD does not require CMS performance evaluation, COMS, or CEMS.
63.9(h)(1)–(h)(3)	Notification of Compliance Status	Yes	
63.9(h)(4)		No	[Reserved].
63.9(h)(5)–(h)(6)		Yes	
63.9(i)	Adjustment of Deadlines	Yes	
63.9(j)	Change in Previous Information	Yes	
63.10(a)	Recordkeeping/Reporting-Applicability	Yes	
63.10(b)	General Recordkeeping Requirements	Yes	§63.1192 includes additional requirements.
63.10(c)(1)	Additional CMS Recordkeeping	Yes	
63.10(c)(2)–(c)(4)		No	[Reserved].
63.10(c)(5)		Yes	
63.10(c)(6)		No	Subpart DDD does not require CMS performance specifications.
63.10(c)(7)–(c)(8)		Yes	
63.10(c)(9)		No	[Reserved].
63.10(c)(10)–(c)(13)		Yes	
63.10(c)(14)		No	Subpart DDD does not require a CMS quality control program.
63.10(c)(15)		Yes	
63.10(d)(1)	General Reporting Requirements	Yes	Additional requirements in §63.1193.
63.10(d)(2)	Performance Test Results	Yes	
63.10(d)(3)	Opacity or VE Observations	No	Subpart DDD does not include VE/opacity standards.
63.10(d)(4)–(d)(5)	Progress Reports/ Startup, Shutdown, and Malfunction Reports	Yes	
63.10(e)(1)–(e)(2)	Additional CMS Reports	No	Subpart DDD does not require CEMS or CMS performance evaluations.

General provisions citation	Requirement	Applies to subpart DDD?	Explanation
63.10(e)(3)	Excess Emissions/CMS Performance Reports	Yes	
63.10(e)(4)	COMS Data Reports	No	Subpart DDD does not require COMS.
63.10(f)	Recordkeeping/Reporting Waiver	Yes	
63.11(a)	Control Device Requirements Applicability	Yes	
63.11(b)	Flares	No	Flares not applicable.
63.12	State Authority and Delegations	Yes	
63.13	Addresses	Yes	
63.14	Incorporation by Reference	Yes	
63.15	Information Availability/Confidentiality	Yes	

D.1.3 One Time Deadlines Relating to NESHAP Subpart DDD

The Permittee must conduct the initial performance tests, submit a notification of compliance status and submit a startup, shutdown and malfunction plan by June 3, 2003.

SECTION D.2 FACILITY OPERATION CONDITIONS

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

- (b) Two (2) blowchambers, identified as EU#3 and EU#4, constructed before 1978, each equipped with a screenhouse, identified as CE#3 and CE#4, capacity: 4.0 tons of molten mineral feed per hour, each.

(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 [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate emission rate from the two (2) blowchambers, identified as EU#3 and EU#4, shall not exceed 10.4 pounds per hour, each, when operating at a process weight rate of 4.0 tons per hour, each.

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

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

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

D.2.2 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities and their control devices.

Compliance Determination Requirements

D.2.3 Particulate Control [326 IAC 2-7-6(6)]

In order to comply with Condition D.2.1, the two (2) screenhouses, identified as CE#3 and CE#4, for particulate control shall be in operation and control emissions from the two (2) blowchambers, identified as EU#3 and EU#4, at all times that the two (2) blowchambers are in operation.

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

D.2.4 Visible Emissions Notations [40 CFR 64]

- (a) Visible emission notations of the two (2) screenhouses, identified as CE#3 and CE#4, stack exhausts 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.2.5 Screenhouse Parametric Monitoring [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)] [40 CFR 64]

- (a) The Permittee shall record the pressure drop across the two (2) screenhouses, identified as CE#3 and CE#4, used in conjunction with the two (2) blowchambers, identified as EU#3 and EU#4, respectively, at least once per day when the blowchambers are in operation. When for any one reading, the pressure drop across the screenhouses is outside the normal range of 0.2 and 10.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.
- (b) The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

D.2.6 Screenhouse Failure Detection

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).

Screenhouse failure can be indicated by a significant drop in the pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as a screen failure detected during visual inspections.

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

D.2.7 Record Keeping Requirements

- (a) To document compliance with Condition D.2.4, the Permittee shall maintain a daily record of visible emission notations of the two (2) screenhouses, identified as CE#3 and CE#4, stack exhausts. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g., the blowchambers did not operate that day).
- (b) To document compliance with Condition D.2.5, the Permittee shall maintain a daily record of the pressure drop across the screenhouses controlling the two (2) blowchambers, identified as EU#3 and EU#4. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g., the blowchambers did not operate that day).
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.3 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: Cafco Process Line

- (c) One (1) Cafco Process Line, identified as EU#41, originally constructed in 1980, with all particulate emissions exhausted to a baghouse, identified as CE#9, exhausted to Stack #9, with a capacity of 12.0 tons of blended product per hour, consisting of the following:
- (1) Five (5) permanent hoppers, identified as EU#14 through EU#18.
 - (2) One (1) portable hopper, identified as EU#27.
 - (3) One (1) live bottom hopper, identified as EU#19.
 - (4) One (1) transfer auger, identified as EU#23.
 - (5) One (1) mixer, identified as EU#24.
 - (6) One (1) granulator, identified as EU#20.
 - (7) One (1) automatic bagger, identified as EU#21, constructed in 2005, equipped with its own baghouse, identified as CE#10, with an outside exhaust.
 - (8) One (1) dedust oil tank, identified as EU#34, constructed prior to 1980, exhausted to Stack #17, capacity: 7,000 gallons.
 - (9) One (1) dedust oil tank, identified as EU#38, constructed in 1997, exhausted to Stack #21, capacity: 8,000 gallons.

(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.3.1 Prevention of Significant Deterioration (PSD) Minor Limit [326 IAC 2-2]

The potential to emit PM from the facilities at the one (1) Cafco Process Line exhausting to the one (1) baghouse, identified as CE#9, and Stack #9, shall be less than 5.2 pounds per hour of PM and 2.92 pounds per hour of PM₁₀. This will limit the potential to emit PM and PM₁₀ from the 1980 modification to less than twenty-five (25) and fifteen (15) tons per year, respectively, and render 326 IAC 2-2, PSD, not applicable.

D.3.2 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate emission rate from the Cafco Process Line, identified as EU#41, shall not exceed 21.7 pounds per hour when operating at a process weight rate of 12.0 tons per hour.

The pounds per hour limitations were calculated with the following equation:

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

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

D.3.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for the one (1) Cafco Process Line, identified as EU#41, and the one (1) baghouse, identified as CE#9.

Compliance Determination Requirements

D.3.4 Particulate Control [326 IAC 2-7-6(6)]

- (a) In order to comply with Conditions D.3.1 and D.3.2, the baghouse identified as CE#9, for particulate control shall be in operation and control emissions from the Cafco Process Line, identified as EU#41, at all times that the Cafco Process Line is in operation.
- (b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

D.3.5 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

Within 180 days after issuance of this Part 70 permit renewal, T 069-18676-00021, in order to demonstrate compliance with Condition D.3.1, the Permittee shall perform PM and PM₁₀ testing for the facilities at the Cafco Process Line exhausting to the one (1) baghouse, identified as CE#9, and Stack #9, utilizing methods as approved by the Commissioner. PM₁₀ includes filterable and condensable PM₁₀. Testing shall be conducted in accordance with Section C - Performance Testing.

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

D.3.6 Visible Emissions Notations [40 CFR 64]

- (a) Visible emission notations of the one (1) baghouse, identified as CE#9 stack exhaust 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.3.7 Baghouse Parametric Monitoring [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)] [40 CFR 64]

- (a) The Permittee shall record the pressure drop across the one (1) baghouse, identified as CE#9, used in conjunction with the Cafco Process Line, identified as EU#41, at least once per day when the Cafco Process Line, identified as EU#41, is in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 0.2 and 6.0 inches of water for CE#9, or a range established during the latest stack test, the Permittee

shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

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

D.3.8 Broken or Failed Bag Detection

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

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

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

D.3.9 Record Keeping Requirements

- (a) To document compliance with Condition D.3.6, the Permittee shall maintain a daily record of visible emission notations of the one (1) baghouse, identified as CE#9, stack exhaust. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g., the Cafco Process Line did not operate that day).
- (b) To document compliance with Condition D.3.7, the Permittee shall maintain a daily record of the pressure drop across the one (1) baghouse, identified as CE#9, controlling the Cafco Process Line, identified as EU#41. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g., the Cafco Process Line did not operate that day).
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.4 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: Bagging and Blending

- (d) One (1) front end mineral wool bagger, identified as EU#7, constructed in 1987, equipped with a baghouse, identified as CE#5, exhausted to Stack #5, capacity: 5.0 tons of bagged mineral wool per hour.
- (e) One (1) batch blender, identified as EU#12, constructed in 1993, equipped with a baghouse, identified as CE#6, exhausted to Stack #6, capacity: 5.0 tons of blended product per hour.
- (f) One (1) ribbon blender, identified as EU#31, constructed in 1988, equipped with a baghouse, identified as CE#6, exhausted to Stack #6, capacity: 2.0 tons of dry powdered binders per year.

(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.4.1 Prevention of Significant Deterioration (PSD) Minor Limit [326 IAC 2-2]

- (a) The potential to emit PM₁₀ from the one (1) front end mineral wool bagger, identified as EU#7, shall be less than 3.42 pounds per hour. This will limit the potential to emit PM₁₀ to less than fifteen (15) tons per year from the front end mineral wool bagger, identified as EU#7, and render 326 IAC 2-2, PSD, not applicable.
- (b) The potential to emit PM₁₀ from the one (1) batch blender, identified as EU#12, shall be less than 3.42 pounds per hour. This will limit the potential to emit PM₁₀ to less than fifteen (15) tons per year from the batch blender, identified as EU#12, and render 326 IAC 2-2, PSD, not applicable.

D.4.2 Particulate [326 IAC 6-3-2]

- (a) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate emission rate from the one (1) front end mineral wool bagger, identified as EU#7, shall not exceed 12.1 pounds per hour when operating at a process weight rate of 5.0 tons per hour.
- (b) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate emission rate from the one (1) batch blender, identified as EU#12, shall not exceed 12.1 pounds per hour when operating at a process weight rate of 5.0 tons per hour.
- (c) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate emission rate from the one (1) ribbon blender, identified as EU#31, shall not exceed 6.52 pounds per hour when operating at a process weight rate of 2.0 tons per hour.

The pounds per hour limitations were calculated with the following equation:

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

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

D.4.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for one (1) front end mineral wool bagger, identified as EU#7, the one (1) batch blender, identified as EU#12, and their control devices.

Compliance Determination Requirements

D.4.4 Particulate Control [326 IAC 2-7-6(6)]

- (a) In order to comply with Conditions D.4.1(a), the baghouse identified as CE#5, for particulate control shall be in operation and control emissions from the one (1) front end mineral wool bagger, identified as EU#7, at all times that the mineral wool bagger is in operation.
- (b) In order to comply with Conditions D.4.1(b), the baghouse identified as CE#6, for particulate control shall be in operation and control emissions from the one (1) batch blender, identified as EU#12, at all times that the batch blender is in operation.
- (c) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

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

D.4.5 Visible Emissions Notations

- (a) Visible emission notations of the two (2) baghouses, identified as CE#5 and CE#6, stack exhausts shall be performed once per day during normal daylight operations when exhausting to the atmosphere. 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.4.6 Baghouse Parametric Monitoring [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

- (a) The Permittee shall record the pressure drop across the baghouses, identified as CE#5 and CE#6, used in conjunction with the one (1) front end mineral wool bagger, identified as EU#7, and the one (1) batch blender, identified as EU#12, at least once per day when the one (1) front end mineral wool bagger, identified as EU#7, and the one (1) batch blender, identified as EU#12, are in operation and exhausting to the atmosphere. When for any one reading, the pressure drop across the baghouse 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 in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

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

D.4.7 Broken or Failed Bag Detection

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

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

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

D.4.8 Record Keeping Requirements

- (a) To document compliance with Condition D.4.5, the Permittee shall maintain a daily record of visible emission notations of the two (2) baghouses, identified as CE#5 and CE#6, stack exhausts. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g., the bagger and blender did not operate that day).
- (b) To document compliance with Condition D.4.6, the Permittee shall maintain a daily record of the pressure drop across the baghouses controlling the one (1) front end mineral wool bagger, identified as EU#7, and the one (1) batch blender, identified as EU#12. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g., the bagger and blender did not operate that day).
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.5 FACILITY OPERATION CONDITIONS

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

- (a) One (1) mineral wool baler, identified as EU#5, constructed in 2005, exhausted inside the building, capacity: 12.0 tons of baled mineral wool per hour. [326 IAC 6-3-2]
- (b) One (1) mineral wool bin, identified as EU#8, constructed in 1983 or 1984, equipped with a pneumatic conveyor that incorporates a totally enclosed air recycled system, capacity: 10.0 tons of mineral wool per hour. [326 IAC 6-3-2]
- (c) One (1) gypsum silo, identified as EU#9, constructed prior to 1980, equipped with a baghouse, identified as CE#8, exhausted to Stack #8, capacity: 54.0 tons of gypsum per hour. [326 IAC 6-3-2] [326 IAC 2-2]
- (d) One (1) chipped gypsum silo, identified as EU#10, constructed in 1991, equipped with a baghouse, identified as CE#8, exhausted to Stack #8, capacity: 54.0 tons of gypsum per hour. [326 IAC 6-3-2] [326 IAC 2-2]
- (e) One (1) cement silo, identified as EU#11, constructed in 1990, equipped with a baghouse, identified as CE#7, exhausted to Stack #7, capacity: 54.0 tons of Portland cement per hour. [326 IAC 6-3-2] [326 IAC 2-2]

(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.5.1 Prevention of Significant Deterioration (PSD) Minor Limit [326 IAC 2-2]

- (a) The potential to emit from the one (1) gypsum silo, identified as EU#9, shall be limited to less than 5.13 pounds per hour of PM and 3.15 pounds per hour of PM₁₀. This will limit the potential to emit PM and PM₁₀ from the 1978 and 1979 modification to less than twenty-five (25) and fifteen (15) tons per year, respectively, and render 326 IAC 2-2, PSD, not applicable.
- (b) The potential to emit from the one (1) cement silo, identified as EU#11, shall be limited to less than 5.7 pounds per hour of PM and 3.42 pounds per hour of PM₁₀. This will limit the potential to emit PM and PM₁₀ to less than twenty-five (25) and fifteen (15) tons per year, respectively, from the one (1) cement silo, identified as EU#11, and render 326 IAC 2-2, PSD, not applicable.
- (c) The potential to emit from the one (1) chipped gypsum silo, identified as EU#10, shall be limited to less than 5.7 pounds per hour of PM and 3.42 pounds per hour of PM₁₀. This will limit the potential to emit PM and PM₁₀ to less than twenty-five (25) and fifteen (15) tons per year, respectively, from the one (1) chipped gypsum silo, identified as EU#10, and render 326 IAC 2-2, PSD, not applicable.

D.5.2 Particulate [326 IAC 6-3-2]

- (a) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate emission rate from the one (1) mineral wool baler, identified as EU#5, shall not exceed 21.7 pounds per hour when operating at a process weight rate of 12.0 tons per hour.
- (b) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate emission rate from the one (1) mineral wool bin, identified as EU#8, shall not exceed 19.2 pounds per hour when operating at a process weight rate of 10.0 tons per hour.

- (c) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate emission rate from the one (1) gypsum silo, identified as EU#9, shall not exceed 45.3 pounds per hour when operating at a process weight rate of 54.0 tons per hour.
- (d) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate emission rate from the one (1) chipped gypsum silo, identified as EU#10, shall not exceed 45.3 pounds per hour when operating at a process weight rate of 54.0 tons per hour.
- (e) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate emission rate from the one (1) cement silo, identified as EU#11, shall not exceed 45.3 pounds per hour when operating at a process weight rate of 54.0 tons per hour.

The pounds per hour limitations were calculated with the following equations:

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:

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

or

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

$$E = 55.0 P^{0.11} - 40 \quad \text{where } E = \text{rate of emission in pounds per hour and} \\ P = \text{process weight rate in tons per hour}$$

D.5.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for the one (1) gypsum silo, identified as EU#9, the one (1) cement silo, identified as EU#11, and the one (1) chipped gypsum silo, identified as EU#10, and their control devices.

Compliance Determination Requirements

D.5.4 Particulate Control [326 IAC 2-7-6(6)]

- (a) In order to comply with Condition D.5.1(a), the baghouse identified as CE#8, for particulate control shall be in operation and control emissions from the one (1) gypsum silo, identified as EU#9, at all times that the gypsum silo is being loaded.
- (b) In order to comply with Conditions D.5.1(b), the baghouse identified as CE#7, for particulate control shall be in operation and control emissions from the one (1) cement silo, identified as EU#11, at all times that the cement silo is being loaded.
- (c) In order to comply with Conditions D.5.1(c), the baghouse identified as CE#8, for particulate control shall be in operation and control emissions from the one (1) chipped gypsum silo, identified as EU#10, at all times that the chipped gypsum silo is being loaded.
- (d) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY**

**PART 70 OPERATING PERMIT
CERTIFICATION**

Source Name: U.S. Mineral Products Company (d/b/a Isolatek International)
Source Address: 701 North Broadway Street, Huntington, Indiana 46750
Mailing Address: P.O. Box 5006, Huntington, Indiana 46750
Part 70 Permit No.: T 069-18676-00021

**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 BRANCH
100 North Senate Avenue
MC61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
Phone: 317-233-0178
Fax: 317-233-6865**

**PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT**

Source Name: U.S. Mineral Products Company (d/b/a Isolatek International)
Source Address: 701 North Broadway Street, Huntington, Indiana 46750
Mailing Address: P.O. Box 5006, Huntington, Indiana 46750
Part 70 Permit No.: T 069-18676-00021

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) C 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 C 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: _____

A certification is not required for this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF AIR QUALITY
 COMPLIANCE DATA SECTION**

**PART 70 OPERATING PERMIT
 QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: U.S. Mineral Products Company (d/b/a Isolatek International)
 Source Address: 701 North Broadway Street, Huntington, Indiana 46750
 Mailing Address: P.O. Box 5006, Huntington, Indiana 46750
 Part 70 Permit No.: T 069-18676-00021

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

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

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

Form Completed By: _____

Title/Position: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

Indiana Department of Environmental Management Office of Air Quality

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

Source Name: U.S. Mineral Products Company (d/b/a Isolatek International)
Source Location: 701 North Broadway Street, Huntington, Indiana 46750
County: Huntington
SIC Code: 3296
Permit Renewal No.: T 069-18676-00021
Permit Reviewer: CarrieAnn Paukowits

On October 2, 2007, the Office of Air Quality (OAQ) had a notice published in The Herald Press, Huntington, Indiana, stating that U.S. Mineral Products Company (d/b/a Isolatek International) had applied for a Part 70 Operating Permit Renewal for the operation of an acoustic and thermal insulation manufacturing source. The notice also stated that OAQ proposed to issue a Part 70 Operating Permit for this operation and provided information on how the public could review the proposed Part 70 Operating 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 Part 70 Operating Permit should be issued as proposed.

On October 25 and 29, 2007, Joseph M. VanCamp, of Cornerstone Environmental, Health and Safety, Inc., on behalf of U.S. Mineral Products Company (d/b/a Isolatek International), submitted comments on the proposed Part 70 Operating Permit Renewal. The comments are as follows (The permit language, if changed, has deleted language as ~~strikeouts~~ and new language **bolded**):

Comment 1:

Isolatek has installed a new slag cement silo with its own dedicated "integral to process" baghouse unit outside the facility. This silo will be identical to the other silos currently referenced in the permit. Please add this new silo and baghouse description to the Insignificant Activity list in Section A.3 of the renewal permit.

Response 1:

IDEM, OAQ, will need to review the calculations, a detailed "integral to process" determination, and applicable rules before acting on the request above. Isolatek should submit an application for this change.

Comment 2:

Please identify the specific emission testing requirements in Section D.1 for the baghouse (CE#1) controlling the two cupolas and the time frame allotted to complete the testing. For clarity, please also identify the specific visible emission notation and parametric monitoring requirements for this baghouse.

Response 2:

The two (2) short stack cupolas, identified as EU#1 and EU#2, must comply with the New Source Performance Standard, Part 60, Subpart DDD, as indicated in the permit. The specific emission testing requirements are listed in the 40 CFR 63.1188, which is included in the permit and the time frames are stated in 40 CFR 63.1180, which is also included. The NESHAP requires a bag leak detection system. The requirements on the system are in 40 CFR 63.1178(b), 40 CFR 63.1181(a) and (c), 40 CFR 63.1184 and 40 CFR 63.1186. Under 40 CFR 63.1186, Performance tests are required in order to change control device and process operating parameter levels established during performance tests and used to monitor compliance. Performance testing was also required prior to the

compliance date of June 3, 2003. An operations, maintenance and monitoring plan must be maintained as required by 40 CFR 63.1187. All requirements of the New Source Performance Standard are included in the permit. There are no additional applicable requirements for the two (2) short stack cupolas, identified as EU#1 and EU#2, at this time.

Comment 3:

The reporting requirements and one-time deadlines identified in Section D.1.3 have already been met by Isolatek. Please identify any future notification or reporting deadlines in this section.

Response 3:

Only one (1) time deadlines are included in Condition D.1.3. All additional requirements are included in Condition D.1.2.

Comment 4:

Please clarify in Section D.2.4 that the visible emission notations should actually be performed on the two screenhouses (CE #3 and CE #4) since they serve as the control devices for the two blowchambers. The stack exhausts that must be monitored are from the screenhouses and not the blowchambers.

Response 4:

Condition D.2.4 has been revised as follows:

D.2.4 Visible Emissions Notations [40 CFR 64]

-
- (a) ~~Visible emission notations of the two (2) blowchambers, identified as EU#3 and EU#4,~~ **screenhouses, identified as CE#3 and CE#4**, stack exhausts 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.

Comment 5:

Please clarify in Section D.2.5 that the parametric monitoring must occur at least once per day when the screenhouses are in operation. The screenhouses are the control devices that have the associated pressure drop range. The term "baghouse" in this section should be replaced with "screenhouse".

Response 5:

Condition D.2.5 has been revised as follows:

D.2.5 Screenhouse Parametric Monitoring [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)] [40 CFR 64]

- (a) The Permittee shall record the pressure drop across the two (2) screenhouses, identified as CE#3 and CE#4, used in conjunction with the two (2) blowchambers, identified as EU#3 and EU#4, respectively, at least once per day when the blowchambers are in operation. When for any one reading, the pressure drop across the ~~baghouse~~ **screenhouses** is outside the normal range of 0.2 and 10.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.
- (b) The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

Comment 6:

Please clarify in Section D.2.7(a) that daily records of visible emission notation should be made of the two (2) screenhouses and not the blowchambers.

Response 6:

Condition D.2.7 has been revised as follows:

D.2.7 Record Keeping Requirements

- (a) To document compliance with Condition D.2.4, the Permittee shall maintain a daily record of visible emission notations of the two (2) ~~blowchambers, identified as EU#3 and EU#4,~~ **screenhouses, identified as CE#3 and CE#4,** stack exhausts. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g., the blowchambers did not operate that day).
- (b) To document compliance with Condition D.2.5, the Permittee shall maintain a daily record of the pressure drop across the screenhouses controlling the two (2) blowchambers, identified as EU#3 and EU#4. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g., the blowchambers did not operate that day).
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

Comment 7:

Please clarify in Section D.3.3 that the Preventive Maintenance Plan requirement is for the two (2) baghouses (CE#9 and CE#10) controlling the Cafco Process line. Baghouse CE#10 controls the automatic bagger, which is a small part of the entire Cafco Process Line. All of the other emission units within the Cafco Process Line are controlled by the main baghouse CE#9.

Response 7:

Although the one (1) Cafco Process Line is considered a single process, IDEM, OAQ, has determined upon further review that operation of the one (1) baghouse, identified as CE#10, is not required in order for the process to comply with 326 IAC 6-3-2 and no control device is required in order to render the requirements of 326 IAC 2-2, PSD, not applicable to the addition of the one (1) automatic bagger. Conditions D.3.3, D.3.4, D.3.6, D.3.7 and D.3.9 have been revised as follows:

D.3.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for the one (1) Cafco Process Line, identified as EU#41, and **the one (1) baghouse, identified as CE#9** ~~its control devices~~.

D.3.4 Particulate Control [326 IAC 2-7-6(6)]

- (a) In order to comply with Conditions D.3.1 and D.3.2, the baghouse identified as CE#9, for particulate control shall be in operation and control emissions from the Cafco Process Line, identified as EU#41, at all times that the Cafco Process Line is in operation.
- (b) ~~Also in order to comply with Conditions D.3.2, the baghouse identified as CE#10, for particulate control shall be in operation and control emissions from the one (1) automatic bagger, identified as EU#21, at the Cafco Process Line, identified as EU#41, at all times that the automatic bagger is in operation.~~
- (c) ~~In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.~~

D.3.6 Visible Emissions Notations [40 CFR 64]

- (a) Visible emission notations of the ~~Cafco Process Line, identified as EU#41,~~ **one (1) baghouse, identified as CE#9** stack exhausts **exhaust** 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.3.7 Baghouse Parametric Monitoring [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)] [40 CFR 64]

- (a) The Permittee shall record the pressure drop across the **one (1) baghouse, identified as CE#9** ~~baghouses~~ used in conjunction with the Cafco Process Line, identified as EU#41, at

least once per day when the Cafco Process Line, identified as EU#41, is in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 0.2 and 6.0 inches of water ~~for CE#9 and 1.0 and 6.0 inches of water for CE#10~~, or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

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

D.3.9 Record Keeping Requirements

- (a) To document compliance with Condition D.3.6, the Permittee shall maintain a daily record of visible emission notations of the ~~Cafco Process Line, identified as EU#41~~, **one (1) baghouse, identified as CE#9**, stack ~~exhausts~~ **exhaust**. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g., the Cafco Process Line did not operate that day).
- (b) To document compliance with Condition D.3.7, the Permittee shall maintain a daily record of the pressure drop across the **one (1) baghouse, identified as CE#9** ~~baghouses~~ controlling the Cafco Process Line, identified as EU#41. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g., the Cafco Process Line did not operate that day).
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

Comment 8:

Please increase the amount of time that Isolatek is allowed to complete emission testing on the main baghouse CE#9 on the Cafco Process Line as specified in Section D.3.5. Isolatek requests up to one year from the effective date of the permit renewal to coordinate and complete this testing requirement.

Response 8:

IDEM, OAQ, has determined that 180 days is usually sufficient enough to coordinate and complete the testing requirement for an existing process. However, the Permittee may request an extension from the Compliance Determination Section of IDEM, OAQ.

Comment 9:

Please clarify in Section D.3.6(a) that the visible emission notations should actually be performed on the main Cafco Process Line baghouse CE#9 since it serves as the main control devices for the line. In addition, it should be specified that the visible emission notations are only required once per day during normal daylight operations when the baghouse is venting to atmosphere. The automatic bagger by itself is a fairly insignificant emission unit and its associated baghouse (CE#10) has no exhaust stack, so visible emission notations should not be required on CE#10.

Response 9:

See Response 7.

Comment 10:

Similarly, please clarify in Section D.3.7(a) that the parametric monitoring requirements should actually be performed only on the main Cafco Process Line baghouse CE#9. In addition, it should be specified that parametric monitoring is only required once per day when the baghouse is venting to atmosphere. No parametric monitoring requirements should be required on baghouse CE#10 since it only controls the insignificant automatic bagging process.

Response 10:

See Response 7.

Comment 11:

Please clarify that the recordkeeping requirements in Section D.3.9(a) and (b) only pertain to the main baghouse CE#9 on the Cafco Process Line.

Response 11:

See Response 7.

Comment 12:

Please clarify in Section D.4.3 that the Preventive Maintenance Plan requirement is for the two baghouses (CE#5 and CE#6) controlling the Front End Mineral Wool Bagger (EU # 7), the Batch Blender (EU#12), and the Ribbon Blender (EU#31). Both blenders are controlled by the same baghouse CE#6.

Response 12:

Preventive Maintenance Plans are only required for the one (1) front end mineral wool bagger, identified as EU#7, the one (1) batch blender, identified as EU#12, and their control devices, which includes baghouses CE#5 and CE#6. While a Preventive Maintenance Plan is not specifically required for the one (1) ribbon blender, identified as EU#31, it may be included in the plan because it exhausts to baghouse CE#6.

Comment 13:

Please clarify in Section D.4.4(b) that baghouse CE#6 must be in operation and control emissions from the Batch Blender (EU#12) and the Ribbon Blender (EU#31) at all times that the blenders are in operation. Both blenders are controlled by the same baghouse CE#6.

Response 13:

Although the one (1) batch blender, identified as EU#12, and the one (1) ribbon blender, identified as EU#31 are both controlled by the baghouse identified as CE#6, the baghouse does not need to operate in order for the one (1) ribbon blender, identified as EU#31, to comply with any applicable limitations.

Comment 14:

Please clarify in Section D.4.5(a) that the visible emission notations should actually be performed on baghouses CE#5 and CE#6 since these are the control devices on the bagger and blender emission units. In addition, it should be specified that the visible emission notations are only required once per day during normal daylight operations when these baghouses are venting to atmosphere.

Response 14:

Condition D.4.5 has been revised as follows:

D.4.5 Visible Emissions Notations

- (a) Visible emission notations of the **two (2) baghouses, identified as CE#5 and CE#6**, ~~one (1) front end mineral wool bagger, identified as EU#7, and the one (1) batch blender, identified as EU#12,~~ stack exhausts shall be performed once per day during normal daylight operations **when exhausting to the atmosphere**. 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.

Comment 15:

Please clarify in Section D.4.6(a) that the parametric monitoring requirements should actually be performed on baghouses CE#5 and CE#6 since these are the control devices on the bagger and blender emission units. In addition, it should be specified that parametric monitoring is only required once per day when these baghouses are venting to atmosphere.

Response 15:

Condition D.4.6 has been revised as follows:

D.4.6 Baghouse Parametric Monitoring [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

- (a) The Permittee shall record the pressure drop across the baghouses, **identified as CE#5 and CE#6**, used in conjunction with the one (1) front end mineral wool bagger, identified as EU#7, and the one (1) batch blender, identified as EU#12, at least once per day when the one (1) front end mineral wool bagger, identified as EU#7, and the one (1) batch blender, identified as EU#12, are in operation **and exhausting to the atmosphere**. When for any one reading, the pressure drop across the baghouse 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 in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.
- (b) The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

Comment 16:

Please clarify that the recordkeeping requirements in Section D.4.8(a) and (b) pertain to baghouses CE#5 and CE#6 since these are the control devices on the bagger and blender emission units.

Response 16:

Condition D.4.8 has been revised as follows:

D.4.8 Record Keeping Requirements

- (a) To document compliance with Condition D.4.5, the Permittee shall maintain a daily record of visible emission notations of the **two (2) baghouses, identified as CE#5 and CE#6, one (1) front end mineral wool bagger, identified as EU#7, and the one (1) batch blender, identified as EU#12,** stack exhausts. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g., the bagger and blender did not operate that day).
- (b) To document compliance with Condition D.4.6, the Permittee shall maintain a daily record of the pressure drop across the baghouses controlling the one (1) front end mineral wool bagger, identified as EU#7, and the one (1) batch blender, identified as EU#12. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g., the bagger and blender did not operate that day).
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

Comment 17:

The mixed binder hopper (EU#40) identified in Section A.2(c)(4) has been removed from the facility.

Response 17:

The facility descriptions in Section A.2 and D.3 have been revised as follows:

- (c) One (1) Cafco Process Line, identified as EU#41, originally constructed in 1980, with all particulate emissions exhausted to a baghouse, identified as CE#9, exhausted to Stack #9, with a capacity of 12.0 tons of blended product per hour, consisting of the following:
 - (1) Five (5) permanent hoppers, identified as EU#14 through EU#18.
 - (2) One (1) portable hopper, identified as EU#27.
 - (3) One (1) live bottom hopper, identified as EU#19.
 - ~~(4) One (1) mixed binder hopper, constructed in 2000, identified as EU#40.~~
 - ~~(5)~~**(4)** One (1) transfer auger, identified as EU#23.
 - ~~(6)~~**(5)** One (1) mixer, identified as EU#24.
 - ~~(8)~~**(6)** One (1) granulator, identified as EU#20.
 - ~~(9)~~**(7)** One (1) automatic bagger, identified as EU#21, constructed in 2005, equipped with its own baghouse, identified as CE#10, with an outside exhaust.

~~(10)~~**(8)** One (1) dedust oil tank, identified as EU#34, constructed prior to 1980, exhausted to Stack #17, capacity: 7,000 gallons.

~~(11)~~**(9)** One (1) dedust oil tank, identified as EU#38, constructed in 1997, exhausted to Stack #21, capacity: 8,000 gallons.

Comment 18:

The front end mineral wool bagger (EU#7) is currently controlled by baghouse CE#5. The facility is planning to remove this baghouse because it is not effective in capturing the mineral wool dust from the bagger since there are no binders in the wool. This causes the wool to clog the filters inside the baghouse within a few hours of start-up. Instead of using baghouse CE#5 to control PM emissions from this process, Isolatek will vent the bagger directly into the blow chambers that are each equipped with a screenhouse for PM control. The net effect of this change is a significant improvement in indoor air quality. The PM emissions from the bagger will in effect still be controlled (by the screenhouses), so the requirements of 326 IAC 2-2 (PSD rules) will still be rendered not applicable. This change will take place within the next couple months.

Response 18:

IDEM, OAQ, will need to review the calculations, possible permit content changes, and applicable rules before acting on the request above. Isolatek should submit an application for this change.

Indiana Department of Environmental Management
Office of Air Quality

Technical Support Document (TSD) for a New Source Review and
a Part 70 Operating Permit Renewal

Source Background and Description

Source Name:	U.S. Mineral Products Company (d/b/a Isolatek International)
Source Location:	701 North Broadway Street, Huntington, Indiana 46750
County:	Huntington
SIC Code:	3296
Permit Renewal No.:	T 069-18676-00021
Permit Reviewer:	CarrieAnn Paukowits

The Office of Air Quality (OAQ) has reviewed the operating permit renewal application from U.S. Mineral Products Company (d/b/a Isolatek International) relating to the operation of an acoustic and thermal insulation manufacturing source.

History

On March 14, 2004, U.S. Mineral Products Company (d/b/a Isolatek International) submitted an application to the OAQ requesting to renew its operating permit. U.S. Mineral Products Company (d/b/a Isolatek International) was issued a Part 70 Operating Permit (T 069-5660-00021) on December 28, 1999.

Permitted Emission Units and Pollution Control Equipment

- (a) Two (2) short stack cupolas, identified as EU#1 and EU#2, constructed before 1960, equipped with a baghouse, identified as CE#1, exhausted to Stack #1, capacity: 5.0 tons of melt per hour and 1.5 tons of coke feed per hour, each.
- (b) Two (2) blowchambers, identified as EU#3 and EU#4, constructed before 1978, each equipped with a screenhouse, identified as CE#3 and CE#4, capacity: 4.0 tons of molten mineral feed per hour, each.
- (c) One (1) Cafco Process Line, identified as EU#41, originally constructed in 1980, with all particulate emissions exhausted to a baghouse, identified as CE#9, exhausted to Stack #9, with a capacity of 12.0 tons of blended product per hour, consisting of the following:
 - (1) Five (5) permanent hoppers, identified as EU#14 through EU#18.
 - (2) One (1) portable hopper, identified as EU#27.
 - (3) One (1) live bottom hopper, identified as EU#19.
 - (4) One (1) mixed binder hopper, constructed in 2000, identified as EU#40.
 - (5) One (1) transfer auger, identified as EU#23.
 - (6) One (1) mixer, identified as EU#24.
 - (8) One (1) granulator, identified as EU#20.
 - (9) One (1) automatic bagger, identified as EU#21, constructed in 2005, equipped with its own baghouse, identified as CE#10, with an outside exhaust.

- (10) One (1) dedust oil tank, identified as EU#34, constructed prior to 1980, exhausted to Stack #17, capacity: 7,000 gallons.
- (11) One (1) dedust oil tank, identified as EU#38, constructed in 1997, exhausted to Stack #21, capacity: 8,000 gallons.
- (d) One (1) front end mineral wool bagger, identified as EU#7, constructed in 1987, equipped with a baghouse, identified as CE#5, exhausted to Stack #5, capacity: 5.0 tons of bagged mineral wool per hour.
- (e) One (1) batch blender, identified as EU#12, constructed in 1993, equipped with a baghouse, identified as CE#6, exhausted to Stack #6, capacity: 5.0 tons of blended product per hour.
- (f) One (1) ribbon blender, identified as EU#31, constructed in 1988, equipped with a baghouse, identified as CE#6, exhausted to Stack #6, capacity: 2.0 tons of dry powdered binders per year.

Emission Units and Pollution Control Equipment Removed From the Source

- (a) One (1) hammermill/cyclone, identified as EU#28, at the Cafco Process Line.
- (b) Two (2) portable hoppers at the Cafco Process Line.
- (c) One (1) manual bagger, identified as EU#21, at the Cafco Process Line. This unit was replaced with an automatic bagger in 2005.

Insignificant Activities

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour, with a total heat input capacity of 4.38 million British thermal units per hour (MMBtu/hr). There are no boilers at this source.
- (b) A petroleum fuel, other than gasoline, dispensing facility, having a storage capacity of less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month.
- (c) Noncontact cooling tower systems with a forced and induced draft cooling tower system not regulated under a NESHAP.
- (d) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.
- (e) Heat exchanger cleaning and repair.
- (f) Process vessel degassing and cleaning to prepare for internal repairs.
- (g) A laboratory as defined in 326 IAC 2-7-1(21)(D).
- (h) Other insignificant activities with emissions below the insignificant thresholds:
 - (1) One (1) mineral wool baler, identified as EU#5, constructed in 2005, exhausted inside the building, capacity: 12.0 tons of baled mineral wool per hour. [326 IAC 6-3-2]

- (2) One (1) mineral wool bin, identified as EU#8, constructed in 1983 or 1984, equipped with a pneumatic conveyor that incorporates a totally enclosed air recycled system, capacity: 10.0 tons of mineral wool per hour. [326 IAC 6-3-2]
- (3) One (1) debaler, identified as EU#13, constructed in 1980, exhausted inside the building, capacity: 5.0 tons of mineral wool per hour.
- (4) One (1) raw material receiving yard, identified as EU#29, constructed prior to 1980, capacity: 216 tons of rock, slag and coke per hour, total.
- (5) One (1) batching station, identified as EU#30, constructed prior to 1980, capacity: 14.4 tons of rock and coke per hour, total.
- (6) One (1) gypsum silo, identified as EU#9, constructed prior to 1980, equipped with a baghouse, identified as CE#8, exhausted to Stack #8, capacity: 54.0 tons of gypsum per hour. [326 IAC 6-3-2] [326 IAC 2-2]
- (7) One (1) chipped gypsum silo, identified as EU#10, constructed in 1991, equipped with a baghouse, identified as CE#8, exhausted to Stack #8, capacity: 54.0 tons of gypsum per hour. [326 IAC 6-3-2] [326 IAC 2-2]
- (8) One (1) cement silo, identified as EU#11, constructed in 1990, equipped with a baghouse, identified as CE#7, exhausted to Stack #7, capacity: 54.0 tons of Portland cement per hour. [326 IAC 6-3-2] [326 IAC 2-2]
- (9) One (1) PEG400 VOC tank, identified as EU#35, constructed in 1990, capacity: 8,000 gallons.

Existing Approvals

Since the issuance of the Part 70 Operating Permit, T 069-5660-00021, on December 28, 1999, the source has constructed or has been operating under the following approvals as well:

- (a) Administrative Amendment No. 069-11828-00021, issued on March 3, 2000;
- (b) Administrative Amendment No. 069-12578-00021, issued on October 16, 2000;
- (c) Reopening No. 069-13323-00021, issued on April 16, 2002; and
- (d) Significant Permit Modification No. 069-16136-00021, issued on April 4, 2003.

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.

The following terms and conditions from previous approvals have been revised in this **Part 70 Operating Permit Renewal**:

Condition D.2.1: Pursuant to 326 IAC 6-3 (Process Operations), the allowable PM emission rates from the indicated facilities shall not exceed the PM emission limitations specified at the specified process weight rates listed in the table in the permit (separate limits were listed for each piece of equipment at the one (1) Cafco Process Line).

Reason revised: The requirements of 326 IAC 6-3-2 apply to each manufacturing process. The definition of process in 326 IAC 1-2-58 is "Any action, operation, or treatment and the equipment used in connection therewith, and all methods or forms of manufacturing or processing that may emit air contaminants." The emission units at the Cafco Process Line operate together, as a line, to create a specific product. Therefore, the Cafco Process Line emission units are all part of a single process, and they will be given a single limit applicable to the total of all emission units. This change was requested by the applicant, and IDEM, OAQ, agrees with the interpretation.

The following terms and conditions from previous approvals have been determined no longer applicable; therefore, were not incorporated into this **Part 70 Operating Permit Renewal**:

- (a) Condition D.1.3(a): Pursuant to 326 IAC 6-3 (Process operations), the allowable PM emission rate from the two (2) cupolas (EU#1 and EU#2) shall not exceed 19.2 pounds per hour when operating at a total process weight rate of 10.0 tons of melt per hour.

Reason revised: Pursuant to 326 IAC 6-3-1(c), 326 IAC 6-3 shall not apply if a particulate matter limitation established in 326 IAC 20, concerning national emission standards for hazardous air pollutants is more stringent than the particulate limitation established in this rule. The requirements of 40 CFR 63, Subpart DDD, which is incorporated by reference by 326 IAC 20-46, are more stringent than 326 IAC 6-3-2. Therefore, 326 IAC 6-3-2 does not apply to the two (2) cupolas, identified as EU#1 and EU#2 (see "326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)" in the State Rule Applicability - Individual Facilities section).

- (b) Condition D.2.3: The particulate matter (PM) and PM₁₀ emissions from EU#40 shall not exceed 1.14 pounds per hour in order to avoid the requirements of 326 IAC 2-7-10.5.

Reason not incorporated: A facility cannot be limited in order to render 326 IAC 2-7-10.5 not applicable. Emissions for this unit would be calculated in a similar manner to the emissions from the one (1) automatic bagger, identified as EU#21. Therefore, the potential to emit before controls and limitations from the one (1) mixed binder hopper, constructed in 2000, identified as EU#40, at the one (1) Cafco Process Line, identified as EU#41, is less than 1.14 pounds per hour and no limitation is required in order to render 326 IAC 2-7-10.5 not applicable.

Air Pollution Control Justification as an Integral Part of the Process

The applicant has submitted the following justification such that the baghouses be considered as an integral part of the three (3) silos, identified as EU#9, EU#10 and EU#11:

The control equipment serves a primary purpose other than pollution control.

The materials are pneumatically conveyed. Therefore, the baghouses are required to move the product. If the bags were not present, most of the product would escape to the atmosphere.

IDEM, OAQ has evaluated the justifications and agreed that the baghouses will be considered as an integral part of the silos. Therefore, the permitting level will be determined using the potential to emit after the baghouses for the three (3) silos. Operating conditions in the proposed permit will specify that these baghouses shall operate at all times when material is being moved into or out of the silos.

Enforcement Issue

There are no enforcement actions pending.

Stack Summary

Stack ID	Operation	Height (feet)	Diameter (feet)	Flow Rate (acfm)	Temperature (°F)
#1	Cupolas EU#1 & EU#2	48.0	4.50	40,000	350
#3	Blowchamber EU#3	6.0	22.5	10,000	120
#4	Blowchamber EU#4	6.0	25.2	10,000	120
#5	Mineral wool bagger (EU#7)	15.0	1.5	5,000	Ambient
#6	Batch blender and Ribbon blender (EU#12 and EU#31)	20.0	1.7	7,500	Ambient
#7	Cement silo (EU#11)	35.0	1.0	300	Ambient
#8	Chipped gypsum silo and Gypsum silo (EU#10 and EU#9)	35.0	1.0	300	Ambient
#9	Cafco Process Line (EU#41)	15.0	1.6	7,500	Ambient
#17	Dedust oil tank (EU#34)	7.0	0.2	35	Ambient
#21	Dedust oil tank (EU#38)	7.0	0.2	35	Ambient

Emission Calculations

See Appendix A of this document for detailed emission calculations (4 pages).

County Attainment Status

The source is located in Huntington County

Pollutant	Status
PM ₁₀	attainment
PM _{2.5}	attainment
SO ₂	attainment
NO _x	attainment
8-hour Ozone	attainment
CO	attainment
Lead	attainment

- (a) Huntington County has been classified as unclassifiable or attainment for PM_{2.5}. U.S. EPA has not yet established the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 for PM_{2.5} emissions. Therefore, until the U.S. EPA adopts specific provisions for PSD review for PM_{2.5} emissions, it has directed states to regulate PM₁₀ emissions as a surrogate for PM_{2.5} emissions. See the State Rule Applicability – Entire Source section.
- (b) 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 emissions and NO_x emissions are considered when evaluating the rule applicability relating to ozone. Huntington County has been designated as attainment or unclassifiable for ozone. Therefore, VOC emissions and NO_x emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability – Entire Source section.
- (c) Huntington County has been classified as attainment or unclassifiable in Indiana for all remaining criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability – Entire Source section.
- (d) On October 25, 2006, the Indiana Air Pollution Control Board finalized a rule revision to 326 IAC 1-4-1 revoking the one-hour ozone standard in Indiana.

Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions of the source.

Pollutant	tons/year
PM	1,489
PM ₁₀	1,487
SO ₂	535
VOC	34.5
CO	15,768
NO _x	101

HAPs	tons/year
Carbonyl Sulfide	189
Total	189

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of PM₁₀, SO₂, NO_x and CO is equal to or greater than one hundred (100) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.
- (b) The potential to emit (as defined in 326 IAC 2-7-1(29)) of all other criteria pollutants is less than one hundred (<100) tons per year.
- (c) The potential to emit (as defined in 326 IAC 2-7-1(29)) of any single HAP is equal to or greater than ten (10) tons per year and the potential to emit (as defined in 326 IAC 2-7-1(29)) of a combination of HAPs is equal to or greater than twenty-five (25) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.

Fugitive Emissions

Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-7, fugitive emissions are not counted toward the determination of Part 70 applicability.

Actual Emissions

The following table shows the actual emissions from the source. This information reflects the 2003 OAQ emission data and the 2005 EPA Toxic Release Inventory (TRI) data.

Pollutant	Actual Emissions (tons/year)
PM	not reported
PM ₁₀	33
SO ₂	2
VOC	17
CO	6,554
NO _x	42
HAP (Carbonyl Sulfide)	57.47

Part 70 Permit Conditions

This source is subject to the requirements of 326 IAC 2-7, pursuant to which the source has to meet 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.

Potential to Emit After Issuance

The table below summarizes the potential to emit, reflecting all limits, of the emission units. Any control equipment is considered federally enforceable only after issuance of this Part 70 permit renewal, and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

Process/Emission Unit	Potential to Emit (tons/year)						
	PM	PM ₁₀	SO ₂	VOC	CO	NO _x	HAPs (Carbonyl Sulfide)
Cupola EU#1	2.19	2.19	252	0.00	7884	50.5	94.6
Cupola EU#2	2.19	2.19	252	0.00	7884	50.5	94.6
Blowchamber EU#3	45.6	45.6	15.2	15.8	0.00	0.00	0.00
Blowchamber EU#4	45.6	45.6	15.2	15.8	0.00	0.00	0.00
Insignificant gypsum silo EU#9	22.5	13.8	0.00	0.00	0.00	0.00	0.00
Insignificant raw material receiving yard EU#29	2.31	1.10	0.00	0.00	0.00	0.00	0.00
Insignificant batching station EU#30	0.154	0.073	0.00	0.00	0.00	0.00	0.00
Cafco Process Line EU#41	22.8	12.8	0.00	2.00	0.00	0.00	0.00
Insignificant debaler EU#13	2.19	2.19	0.00	0.00	0.00	0.00	0.00
Insignificant mineral wool bin EU#8	4.38	4.38	0.00	0.00	0.00	0.00	0.00
Front end mineral wool bagger EU#7	21.9	14.98	0.00	0.00	0.00	0.00	0.00
Ribbon blender EU#31	8.76	8.76	0.00	0.00	0.00	0.00	0.00
Insignificant cement silo EU#11	24.97	14.98	0.00	0.00	0.00	0.00	0.00
Insignificant PEG 400 tank EU#35	0.00	0.00	0.00	1.00	0.00	0.00	0.00
Insignificant chipped gypsum silo EU#10	24.97	14.98	0.00	0.00	0.00	0.00	0.00
Batch blender EU#12	21.9	14.98	0.00	0.00	0.00	0.00	0.00
Insignificant mineral wool baler EU#5	5.256	5.256	0.00	0.00	0.00	0.00	0.00
Automatic bagger at the Cafco Process Line EU#21	0.939	0.329	0.00	0.00	0.00	0.00	0.00
Total	358	204	535	34.5	15,768	101	189
Major Source Threshold	250	250	250	250	250	250	10/25

Limited values are italicized.

- (a) This existing stationary source is major for PSD because the emissions of at least one attainment pollutant are greater than two hundred fifty (>250) tons per year, and is not one of the twenty-eight (28) listed source categories.
- (b) Fugitive Emissions
Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 or 326 IAC 2-3, fugitive emissions are not counted toward the determination of PSD and Emission Offset applicability.
- (c) Emissions from insignificant combustion are not included because those emissions will not change the applicability of any rules. This source is already a major source.

Federal Rule Applicability

- (a) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is applicable to existing emission units that involve a pollutant-specific emission unit and meet the following criteria:
 - (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.

The following table is used to identify the applicability of each of the criteria, under 40 CFR 64.1, to each existing emission unit and specified pollutant subject to CAM:

Emission Unit / Pollutant	Control Device Used	Emission Limitation (Y/N)	Un-controlled PTE (tons/year)	Controlled PTE (tons/year)	Major Source Threshold (tons/year)	CAM Applicable (Y/N)	Large Unit (Y/N)
Cupola EU#1 (PM)	Baghouse (CE#1)	Y	350	2.10	100	N	N
Cupola EU#1 (PM ₁₀)	Baghouse (CE#1)	N	350	2.10	100	N	N
Cupola EU#1 (SO ₂)	None	N	252	252	100	N	N
Cupola EU#1 (NO _x)	None	N	50.5	50.5	100	N	N
Cupola EU#1 (CO)	None	N	7,884	7,884	100	N	N
Cupola EU#1 (HAPs, Carbonyl Sulfide)	Baghouse (CE#1)	N	94.6	94.6	10	N	N

Emission Unit / Pollutant	Control Device Used	Emission Limitation (Y/N)	Un-controlled PTE (tons/year)	Controlled PTE (tons/year)	Major Source Threshold (tons/year)	CAM Applicable (Y/N)	Large Unit (Y/N)
Cupola EU#2 (PM)	Baghouse (CE#1)	Y	350	2.10	100	N	N
Cupola EU#2 (PM ₁₀)	Baghouse (CE#1)	N	350	2.10	100	N	N
Cupola EU#2 (SO ₂)	None	N	252	252	100	N	N
Cupola EU#2 (NOx)	None	N	50.5	50.5	100	N	N
Cupola EU#2 (CO)	None	N	7,884	7,884	100	N	N
Cupola EU#2 (HAPs, Carbonyl Sulfide)	Baghouse (CE#1)	N	94.6	94.6	10	N	N
Blow-chamber EU#3 (PM)	Screenhouse (CE#3)	Y	210	21.0	100	Y	N
Blow-chamber EU#3 (PM ₁₀)	Screenhouse (CE#3)	N	210	21.0	100	N	N
Blow-chamber EU#3 (SO ₂)	None	N	15.2	15.2	100	N	N
Blow-chamber EU#3 (VOC)	None	N	15.8	15.8	100	N	N
Blow-chamber EU#4 (PM)	Screenhouse (CE#4)	Y	210	21.0	100	Y	N
Blow-chamber EU#4 (PM ₁₀)	Screenhouse (CE#4)	N	210	21.0	100	N	N
Blow-chamber EU#4 (SO ₂)	None	N	15.2	15.2	100	N	N

Emission Unit / Pollutant	Control Device Used	Emission Limitation (Y/N)	Un-controlled PTE (tons/year)	Controlled PTE (tons/year)	Major Source Threshold (tons/year)	CAM Applicable (Y/N)	Large Unit (Y/N)
Blow-chamber EU#4 (VOC)	None	N	15.8	15.8	100	N	N
Caftco Process Line EU#41 (PM)	Baghouses (CE#9 and CE#10)	Y	301	3.19	100	Y	N
Caftco Process Line EU#41 (PM ₁₀)	Baghouses (CE#9 and CE#10)	Y	301	3.19	100	Y	N
Front End Bagger EU#7 (PM)	Baghouse (CE#5)	Y	21.9	0.219	100	N	N
Front End Bagger EU#7 (PM ₁₀)	Baghouse (CE#5)	Y	21.9	0.219	100	N	N
Batch Blender EU#12 (PM)	Baghouse (CE#6)	Y	21.9	0.219	100	N	N
Batch Blender EU#12 (PM ₁₀)	Baghouse (CE#6)	Y	21.9	0.219	100	N	N
Ribbon Blender EU#31 (PM)	Baghouse (CE#6)	Y	8.76	0.088	100	N	N
Ribbon Blender EU#31 (PM ₁₀)	Baghouse (CE#6)	N	8.76	0.088	100	N	N

The two (2) cupolas, identified as EU#1 and EU#2, are subject to a NESHAP (40 CFR 63, Subpart DDD), which is a NESHAP that was proposed after November 15, 1990, under Section 112 of the Clean Air Act. This NESHAP, Subpart DDD, restricts PM emissions. The compliance requirements contained therein will satisfy the requirements of 40 CFR 64 and a CAM plan is not required.

Based on this evaluation, the requirements of 40 CFR Part 64, CAM are applicable to the two (2) blowchambers, identified as EU#3 and EU#4, for PM, and the one (1) Caftco Process Line, identified as EU#41, for PM and PM₁₀. The Compliance Determination and Monitoring Requirements section includes a detailed description of the CAM

requirements.

- (b) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in the permit for this source.
- (c) This source does not produce insulation material composed of glass fibers made from glass produced or melted at the source. Therefore, this source does not meet the definition of a wool fiberglass insulation manufacturing line, and the requirements of the New Source Performance Standard for Wool Fiberglass Insulation Manufacturing Plants, 40 CFR 60.680, Subpart PPP, are not included in the permit.
- (d) The two (2) dedust oil tanks, identified as EU#34 and EU#38, and the one (1) PEG400 VOC tank, identified as EU#35, were all constructed after May 18, 1978, and all have capacities less than 40,000 gallons. Therefore, the requirements of the Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984, 40 CFR 63, Subpart Ka, are not included in the permit.
- (e) The one (1) dedust oil tank, identified as EU#38, and the one (1) PEG400 VOC tank, identified as EU#35, were both constructed after July 23, 1984, and both have capacities less than 75 cubic meters. Therefore, the Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984, are not included in the permit.
- (f) This source is subject to the National Emission Standards for Hazardous Air Pollutants for Mineral Wool Production, 40 CFR 63, Subpart DDD, which is incorporated by reference by 326 IAC 20-46. The Permittee operates a mineral wool production facility at a major source of HAPs. Pursuant to 40 CFR 63.1175, this subpart establishes national emission standards for hazardous air pollutants emitted from existing, new, and reconstructed cupolas and curing ovens at facilities that produce mineral wool. This source operates two (2) existing cupolas that are subject to the limitations in Subpart DDD. The specific facilities subject to the rule include the following:

Two (2) short stack cupolas, identified as EU#1 and EU#2, constructed before 1960, equipped with a baghouse, identified as CE#1, exhausted to Stack #1, capacity: 5.0 tons of melt per hour, and 1.5 tons of coke feed per hour, each.

Nonapplicable portions of the NESHAP will not be included in the permit. The existing cupolas are subject to the following portions of 40 CFR 63, Subpart DDD:

- (1) 40 CFR 63.1175
- (2) 40 CFR 63.1176
- (3) 40 CFR 63.1177
- (4) 40 CFR 63.1178(a)(1) and (b)(1) and (2)
- (5) 40 CFR 63.1180(a)(2), (c) and (d)
- (6) 40 CFR 63.1181
- (7) 40 CFR 63.1184
- (8) 40 CFR 63.1185
- (9) 40 CFR 63.1186
- (10) 40 CFR 63.1187
- (11) 40 CFR 63.1188(a) through (c) and (f) through (i)
- (12) 40 CFR 63.1189(a) through (e)
- (13) 40 CFR 63.1190(a)
- (14) 40 CFR 63.1191(a)(2), (d) and (e)

- (15) 40 CFR 63.1192
- (16) 40 CFR 63.1193
- (17) 40 CFR 63.1194
- (18) 40 CFR 63.1195
- (19) Table 1

The provisions of 40 CFR 63 Subpart A – General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the facility described in this section except when otherwise specified in 40 CFR 63, Subpart DDD.

Testing was conducted on February 20, 2003 and the source was found to be in compliance with the PM limitation.

State Rule Applicability - Entire Source

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

The source has submitted an Emergency Reduction Plan (ERP) on April 3, 2000. The ERP has been verified to fulfill the requirements of 326 IAC 1-5-2 (Emergency Reduction Plans).

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

- (a) The two (2) cupolas, identified as EU#1 and EU#2, and the two (2) blow chambers, identified as EU#3 and EU#4, were constructed prior to August 7, 1977, and have the potential to emit more than 250 tons per year of SO₂ and CO. Therefore, this source was already a major source on August 7, 1977, but PSD review was not required.
- (b) The one (1) gypsum silo, identified as EU#9, one (1) raw material receiving yard, identified as EU#29, and one (1) batching station, identified as EU#30, all of which are insignificant activities due to the unrestricted potential emission levels, were all constructed prior to 1980, but possibly after August 7, 1977. Assuming they were all constructed as part of one (1) modification, the potential to emit PM and PM₁₀ is less than twenty-five (25) and fifteen (15) tons per year after control by the integral baghouse on the one (1) gypsum silo, identified as EU#9. Because the silo must operate properly to render 326 IAC 2-2, PSD, not applicable, the emissions from the one (1) gypsum silo, identified as EU#9, shall be limited to less than 5.13 pounds per hour of PM and 3.15 pounds per hour of PM₁₀. This will limit the potential to emit PM and PM₁₀ from the 1980 modification to less than twenty-five (25) and fifteen (15) tons per year, respectively, and render 326 IAC 2-2, PSD, not applicable.
- (c) The one (1) Cafco Process Line, identified as EU#41, and the one (1) insignificant debaler, identified as EU#13, were constructed in 1980. The unrestricted potential PM and PM₁₀ emissions from the 1980 modification are greater than twenty-five (25) and fifteen (15) tons per year, respectively. The potential to emit PM from the facilities at the one (1) Cafco Process Line exhausting to the one (1) baghouse, identified as CE#9, and Stack #9, shall be limited to less than 5.2 pounds per hour of PM and 2.92 pounds per hour of PM₁₀. This will limit the potential to emit PM and PM₁₀ from the 1980 modification to less than twenty-five (25) and fifteen (15) tons per year, respectively, and render 326 IAC 2-2, PSD, not applicable. The potential to emit after control by the baghouse, identified as CE#9, is 0.643 pounds per hour of PM and PM₁₀. Therefore, the facilities at the one (1) Cafco Process Line can comply with this rule.
- (d) The only other modifications with unrestricted potential emissions greater than the PSD significance levels were the 1987 addition of EU#7 and the 1993 addition of EU#12, which each have the unrestricted potential emissions of more than fifteen (15) tons per year of PM₁₀. In addition, the potential to emit particulate from the one (1) cement silo (EU#11), constructed in 1990, and one (1) chipped gypsum silo (EU#10), constructed in

1991, is calculated after control by the integral baghouses. However, the baghouses must operate at specific control efficiencies in order for the PM and PM₁₀ emissions to be less than the PSD significance levels. Therefore, limitations are also applicable to the silos.

- (1) The potential to emit PM₁₀ from the one (1) front end mineral wool bagger, identified as EU#7, shall be limited to less than 3.42 pounds per hour. This will limit the potential to emit PM₁₀ to less than fifteen (15) tons per year from the one (1) front end mineral wool bagger, identified as EU#7, and render 326 IAC 2-2, PSD, not applicable to the 1987 modification. The potential to emit after control by the one (1) baghouse, identified as CE#5, is 0.050 pounds per hour. Therefore, the one (1) front end mineral wool bagger, identified as EU#7, can comply with this rule.
- (2) The potential to emit PM₁₀ from the one (1) batch blender, identified as EU#12, shall be limited to less than 3.42 pounds per hour. This will limit the potential to emit PM₁₀ to less than fifteen (15) tons per year from the one (1) one (1) batch blender, identified as EU#12, and render 326 IAC 2-2, PSD, not applicable to the 1993 modification. The potential to emit after control by the one (1) baghouse, identified as CE#6, is 0.050 pounds per hour. Therefore, the one (1) batch blender, identified as EU#12, can comply with this rule.
- (3) The potential to emit PM from the one (1) cement silo, identified as EU#11, shall be limited to less than 5.7 pounds per hour and the potential to emit PM₁₀ shall be limited to less than 3.42 pounds per hour. This will limit the potential to emit PM and PM₁₀ to less than twenty-five (25) and fifteen (15) tons per year, respectively, from the one (1) cement silo, identified as EU#11, and render 326 IAC 2-2, PSD, not applicable to the 1990 modification. The potential to emit after control by the one (1) baghouse, identified as CE#7, is 0.389 pounds of PM per hour and 0.248 pounds of PM₁₀ per hour. Therefore, the one (1) cement silo, identified as EU#11, can comply with this rule.
- (4) The potential to emit PM from the one (1) chipped gypsum silo, identified as EU#10, shall be limited to less than 5.7 pounds per hour and the potential to emit PM₁₀ shall be limited to less than 3.42 pounds per hour. This will limit the potential to emit PM and PM₁₀ to less than twenty-five (25) and fifteen (15) tons per year, respectively, from the one (1) chipped gypsum silo, identified as EU#10, and render 326 IAC 2-2, PSD, not applicable to the 1991 modification. The potential to emit after control by the one (1) baghouse, identified as CE#7, is 0.389 pounds of PM per hour and 0.248 pounds of PM₁₀ per hour. Therefore, the one (1) chipped gypsum silo, identified as EU#10, can comply with this rule.

326 IAC 2-6 (Emission Reporting)

This source is subject to 326 IAC 2-6 (Emission Reporting) because it is required to have an operating permit under 326 IAC 2-7, Part 70 program. Pursuant to this rule, the Permittee shall submit an emission statement certified pursuant to the requirements of 326 IAC 2-6. The potential to CO is greater than 2,500 tons per year. Therefore, in accordance with the compliance schedule specified in 326 IAC 2-6-3(a)(1), an emission statement must be submitted annually by July 1. Therefore, the next emission statement for this source must be submitted by July 1, 2008. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4.

326 IAC 5-1 (Opacity Limitations)

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

State Rule Applicability – Individual Facilities

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

The two (2) cupolas, identified as EU#1 and EU#2 were constructed prior to July 27, 1997. Therefore, the requirements of 326 IAC 2-4.1 are not applicable. All other facilities have unrestricted potential emissions less than ten (10) tons per year of each individual HAP and twenty-five (25) tons per year of total HAPs.

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

- (a) The unrestricted potential particulate emissions from the one (1) raw material receiving yard, identified as EU#29, the one (1) batching station, identified as EU#30, and the one (1) debaler, identified as EU#13, are less than 0.551 pounds per hour. Therefore, pursuant to 326 IAC 6-3-1(b)(14), the requirements of 326 IAC 6-3-2 are not applicable to those facilities.
- (b) The PM emissions from the two (2) cupolas, identified as EU#1 and EU#2, are limited to 0.1 pound per ton of melt by NESHAP Subpart DDD. This is equivalent to 0.5 pounds per hour when operating at the maximum process weight rate of 5.0 tons of melt per hour. If limited by 326 IAC 6-3-2, the particulate emission rate would be limited to 14.4 pounds per hour, each, when operating at a process weight rate of 6.5 tons per hour, each (5.0 tons of melt and 1.5 tons of coke). Pursuant to 326 IAC 6-3-1(c), 326 IAC 6-3 shall not apply if a particulate matter limitation established in 326 IAC 20, concerning national emission standards for hazardous air pollutants is more stringent than the particulate limitation established in this rule. Therefore, the requirements of 40 CFR 63, Subpart DDD, which is incorporated by reference by 326 IAC 20-46, are more stringent than 326 IAC 6-3-2. Therefore, 326 IAC 6-3-2 does not apply to the two (2) cupolas, identified as EU#1 and EU#2.
- (c) The particulate from the other facilities at this source shall be limited by the following:

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

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

or

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

$$E = 55.0 P^{0.11} - 40 \quad \text{where} \quad E = \text{rate of emission in pounds per hour and}$$

P = process weight rate in tons per hour

Specific limitations are as follows:

Process	Process Weight Rate (tons/hr)	Particulate Limit pursuant to 326 IAC 6-3-2 (lbs/hr)	Unrestricted Potential to Emit (lbs/hr)	Control Device ID	Controlled Potential to Emit (lbs/hr)	Control Required for Compliance with 326 IAC 6-3-2?
One (1) blowchamber, identified as EU#3	4.0	10.4	48.0	CE#3	4.80	Yes
One (1) blowchamber, identified EU#4	4.0	10.4	48.0	CE#4	4.80	Yes
One (1) Cafco Process Line, identified as EU#41*	12.0	21.7	68.6	CE#9 and CE#10	0.727	Yes
One (1) front end mineral wool bagger, identified as EU#7	5.0	12.1	5.00	CE#5	0.050	No
One (1) batch blender, identified as EU#12	5.0	12.1	5.00	CE#5	0.050	No
One (1) ribbon blender, identified as EU#31	2.0	6.52	2.00	CE#6	0.020	No
Insignificant Activities						
One (1) mineral wool baler, identified as EU#5	12.0	21.7	1.20	N/A		
One (1) mineral wool bin, identified as EU#8	10.0	19.2	1.00	N/A		
One (1) gypsum silo, identified as EU#9	54.0	45.3	38.9 before integral baghouse	CE#8	0.389	No
One (1) chipped gypsum silo, identified as EU#10	54.0	45.3	38.9 before integral baghouse	CE#8	0.389	No
One (1) cement silo, identified as EU#11	54.0	45.3	38.9 before integral baghouse	CE#7	0.389	No

*The Cafco Process Line is considered a single process because all facilities operate in series to create the same final product. The automatic bagger is included.

326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations)

- (a) The potential to emit SO₂ from the two (2) blowchambers, identified as EU#3 and EU#4, are less than ten (10) pounds per hour and twenty-five (25) tons per year, each. Therefore, the requirements of 326 IAC 7-1.1 are not applicable to the two (2) blowchambers.
- (b) The potential to emit SO₂ from the two (2) cupolas, identified as EU#1 and EU#2, are greater than twenty-five (25) tons per year or ten (10) pounds per hour. Therefore, the two (2) cupolas are subject to the requirements of 326 IAC 7-1.1. However, there are no applicable limitations for coke-fired units. Therefore, the requirements of 326 IAC 7-1.1 are not included in the permit.

326 IAC 7-3 (Ambient Monitoring)

This source does not have the potential to emit 10,000 tons or more of SO₂ per year. Therefore, the requirements of 326 IAC 7-3 are not applicable.

326 IAC 8-1-6 (New facilities; General reduction requirements)

The potential VOC emissions from each facility at this source are less than twenty-five (25) tons per year. Therefore, the requirements of 326 IAC 8-1-6 are not applicable.

326 IAC 8-6 (Organic Solvent Emission Limitations)

This source commenced operation in Huntington County prior to October 7, 1974. In addition, the potential VOC emissions from the entire source are less than one hundred (100) tons per year. Therefore, the requirements of 326 IAC 8-6 are not applicable.

326 IAC 9-1 (Carbon Monoxide Emission Limits)

The two (2) cupolas, identified as EU#1 and EU#2, were both constructed and began operations prior to 1960 which is prior to the March 21, 1972 applicability date of 326 IAC 9-1. Therefore, the requirements of 326 IAC 9-1 are not applicable.

326 IAC 8-9 (Volatile Organic Liquid Storage Vessels)

This source is not in Clark, Floyd, Lake or Porter County. Therefore, the requirements of 326 IAC 8-9 are not applicable.

326 IAC 10-4 (Nitrogen Oxides Budget Trading Program)

This source does not have an electricity generating unit or a large affected unit, as defined by 326 IAC 10-4-2(16) and (27). Therefore, the requirements of 326 IAC 10-4 are not applicable.

Compliance Determination and Monitoring Requirements

Permits issued under 326 IAC 2-7 are required to ensure that sources can demonstrate compliance with all applicable state and federal rules on a continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a continuous demonstration. When this occurs, IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-7-5. As a result, Compliance Determination Requirements are included in the permit. The Compliance Determination Requirements in Section D of the permit are those conditions that are found directly within state and federal rules and the violation of which serves as grounds for enforcement action.

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

arise through a source's failure to take the appropriate corrective actions within a specific time period.

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

- (a) The two (2) blowchambers, identified as EU#3 and EU#4, have applicable compliance determination conditions as specified below:

In order to comply with 326 IAC 6-3-2, the two (2) screenhouses, identified as CE#3 and CE#4, for particulate control shall be in operation and control emissions from the two (2) blowchambers, identified as EU#3 and EU#4, at all times that the two (2) blowchambers are in operation.

- (b) The one (1) Cafco Process Line, identified as EU#41, has applicable compliance determination conditions as specified below:

(1) In order to comply with 326 IAC 6-3-2 and the limitations that render 326 IAC 2-2 not applicable, the baghouse identified as CE#9, for particulate control shall be in operation and control emissions from the Cafco Process Line, identified as EU#41, at all times that the Cafco Process Line is in operation.

(2) In order to comply with 326 IAC 6-3-2, the baghouse identified as CE#10, for particulate control shall be in operation and control emissions from the one (1) automatic bagger, identified as EU#21, at the Cafco Process Line, identified as EU#41, at all times that the automatic bagger is in operation.

(3) Within 180 days after issuance of this Part 70 permit renewal, T 069-18676-00021, in order to demonstrate compliance with Condition D.3.1, the Permittee shall perform PM and PM₁₀ testing for the facilities at the Cafco Process Line exhausting to the one (1) baghouse, identified as CE#9, and stack S#9, utilizing methods as approved by the Commissioner. PM₁₀ includes filterable and condensable PM₁₀. Testing shall be conducted in accordance with Section C - Performance Testing.

- (c) The one (1) front end mineral wool bagger, identified as EU#7, and the one (1) batch blender, identified as EU#12, have applicable compliance determination conditions as specified below:

(1) In order to comply with the limitation that renders 326 IAC 2-2 not applicable, the baghouse identified as CE#5, for particulate control shall be in operation and control emissions from the one (1) front end mineral wool bagger, identified as EU#7, at all times that the mineral wool bagger is in operation.

(2) In order to comply with the limitation that renders 326 IAC 2-2 not applicable, the baghouse identified as CE#6, for particulate control shall be in operation and control emissions from the one (1) batch blender, identified as EU#12, at all times that the batch blender is in operation.

- (d) The insignificant silos have applicable compliance determination conditions as specified below:

(1) In order to comply with the limitation that renders 326 IAC 2-2 not applicable the baghouse identified as CE#8, for particulate control shall be in operation and control emissions from the one (1) gypsum silo, identified as EU#9, at all times that the gypsum silo is being loaded.

- (2) In order to comply with the limitation that renders 326 IAC 2-2 not applicable the baghouse identified as CE#7, for particulate control shall be in operation and control emissions from the one (1) cement silo, identified as EU#11, at all times that the cement silo is being loaded.
- (3) In order to comply with the limitation that renders 326 IAC 2-2 not applicable, the baghouse identified as CE#8, for particulate control shall be in operation and control emissions from the one (1) chipped gypsum silo, identified as EU#10, at all times that the chipped gypsum silo is being loaded.

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

Control	Parameter	Frequency	Range	Excursions and Exceedances
CE#3 (screenhouse for EU#3) and CE#4 (screenhouse for EU#4)	Water Pressure Drop	Daily	0.2 to 10.0 inches	Response Steps
	Visible Emissions		Normal-Abnormal	
CE#9 (baghouse for EU#41)	Water Pressure Drop	Daily	0.2 to 6.0 inches	Response Steps
	Visible Emissions		Normal-Abnormal	
CE#10 (baghouse for EU#21 at EU#41)	Water Pressure Drop	Daily	1.0 to 6.0 inches	Response Steps
	Visible Emissions		Normal-Abnormal	
CE#5 (baghouse for EU#7) and CE#6 (baghouse for EU#12)	Water Pressure Drop	Daily	1.0 to 6.0 inches	Response Steps
	Visible Emissions		Normal-Abnormal	

These monitoring conditions are necessary because the baghouse (CE#10) for EU#21 at EU#41, and the screenhouses for EU#3 and EU#4 must operate properly to ensure compliance with 326 IAC 6-3-2 and 326 IAC 2-7, the baghouse (CE#9) for EU#41 must operate properly to ensure compliance with 326 IAC 6-3-2, 326 IAC 2-7, and the limitations that render 326 IAC 2-2 not applicable, and the baghouses for EU#7 and EU#12 must operate properly to ensure compliance with 326 IAC 2-7 and the limits that render 326 IAC 2-2 not applicable.

These monitoring conditions are also applicable pursuant to 40 CFR 64, Compliance Assurance Monitoring (CAM), for the two (2) blowchambers, identified as EU#3 and EU#4, and the Cafco Process Line, identified as EU#41.

The two (2) cupolas, identified as EU#1 and EU#2, must comply with the monitoring requirements in 40 CFR 63, Subpart DDD.

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 March 15, 2004. Additional information was received on August 15, 2007.

Conclusion

The operation of this acoustic and thermal insulation manufacturing source shall be subject to the conditions of the attached Part 70 Operating Permit Renewal No. T 069-18676-00021.

**Appendix A: Emission Calculations
Baghouse Operations**

Company Name: United States Mineral Products Company d.b.a. Isolatek International
 Address City IN Zip: 701 North Broadway Street, Huntington, Indiana 46750
 Part 70 Renewal No.: T 069-18676-00021
 Reviewer: CarrieAnn Paukowits
 Date: September 14, 2007

Cupolas

Emission Unit		EU#1 Cupola #1						
Pollutant	Maximum Rate (tons/hr)	Emission Factor (lbs/tons)	Uncontrolled Emission Rate (lbs/hr)	Uncontrolled Emission Rate (tons/yr)	Control Efficiency (%)	Controlled Emission Rate (lbs/hr)	Controlled Emission Rate (tons/yr)	
PM	5.0	16.0	80.0	350.4	99.4%	0.480	2.10	AP-42 Table 11.18-2, July 1993
PM-10	5.0	16.0	80.0	350.4	99.4%	0.480	2.10	AP-42 Table 11.18-2, July 1994
SO2	7.2	8.0	57.60	252.29	0.0%	57.600	252.29	AP-42 Table 11.18-4, July 1993
NOx	7.2	1.6	11.52	50.46	0.0%	11.520	50.46	AP-42 Table 11.18-6, July 1993
VOC	7.2	0.0	0.00	0.00	0.0%	0.000	0.00	
CO	7.2	250.0	1800.00	7884.00	0.0%	1800.000	7884.00	AP-42 Table 11.18-4, July 1993
Carbonyl Sulfide	7.2	3.0	21.60	94.61	0.0%	21.600	94.608	AP-42 Table 11.18-6, July 1993

Emission Unit		EU#2 Cupola #2						
Pollutant	Maximum Rate (tons/hr)	Emission Factor (lbs/tons)	Uncontrolled Emission Rate (lbs/hr)	Uncontrolled Emission Rate (tons/yr)	Control Efficiency (%)	Controlled Emission Rate (lbs/hr)	Controlled Emission Rate (tons/yr)	
PM	5.0	16.0	80.0	350.4	99.4%	0.480	2.10	AP-42 Table 11.18-2, July 1993
PM-10	5.0	16.0	80.00	350.40	99.4%	0.480	2.10	AP-42 Table 11.18-2, July 1994
SO2	7.2	8.0	57.60	252.29	0.0%	57.600	252.29	AP-42 Table 11.18-4, July 1993
NOx	7.2	1.6	11.52	50.46	0.0%	11.520	50.46	AP-42 Table 11.18-6, July 1993
VOC	7.2	0.0	0.00	0.00	0.0%	0.000	0.00	
CO	7.2	250.0	1800.00	7884.00	0.0%	1800.000	7884.000	AP-42 Table 11.18-4, July 1993
Carbonyl Sulfide	7.2	3.0	21.6	94.608	0.0%	21.6	94.608	AP-42 Table 11.18-6, July 1993

Emission factors for PM and PM10 are in lb/ton product, while the other emission factors are in lbs/ton feed.

Blowchambers

Emission Unit		EU#3 Blowchamber #1						
Pollutant	Maximum Rate (tons/hr)	Emission Factor (lbs/tons)	Uncontrolled Emission Rate (lbs/hr)	Uncontrolled Emission Rate (tons/yr)	Control Efficiency (%)	Controlled Emission Rate (lbs/hr)	Controlled Emission Rate (tons/yr)	
PM	4.0	12.0	48.0	210.2	90.0%	4.800	21.02	AP-42 Table 11.18-2, July 1993
PM-10	4.0	12.0	48.00	210.24	90.0%	4.800	21.02	AP-42 Table 11.18-2, July 1994
SO2	4.0	0.87	3.48	15.24	0.0%	3.480	15.24	AP-42 Table 11.18-4, July 1993 corrected January 2007
NOx	4.0	0.0	0.00	0.00	0.0%	0.000	0.00	AP-42 Table 11.18-6, July 1993
VOC	4.0	0.9	3.60	15.77	0.0%	3.600	15.77	SCC 3-05-017-03, FIRE 6.25
CO	4.0	0.0	0.00	0.00	0.0%	0.000	0.000	AP-42 Table 11.18-4, July 1993

Emission Unit		EU#4 Blowchamber #2						
Pollutant	Maximum Rate (tons/hr)	Emission Factor (lbs/tons)	Uncontrolled Emission Rate (lbs/hr)	Uncontrolled Emission Rate (tons/yr)	Control Efficiency (%)	Controlled Emission Rate (lbs/hr)	Controlled Emission Rate (tons/yr)	
PM	4.0	12.0	48.0	210.2	90.0%	4.800	21.02	AP-42 Table 11.18-2, July 1993
PM-10	4.0	12.0	48.00	210.24	90.0%	4.800	21.02	AP-42 Table 11.18-2, July 1994
SO2	4.0	0.87	3.48	15.24	0.0%	3.480	15.24	AP-42 Table 11.18-4, July 1993 corrected January 2007
NOx	4.0	0.0	0.00	0.00	0.0%	0.000	0.00	AP-42 Table 11.18-6, July 1993
VOC	4.0	0.9	3.60	15.77	0.0%	3.600	15.77	SCC 3-05-017-03, FIRE 6.25
CO	4.0	0.0	0.00	0.00	0.0%	0.000	0.000	AP-42 Table 11.18-4, July 1993

**Appendix A: Emission Calculations
Baghouse Operations**

Company Name: United States Mineral Products Company d.b.a. Isolatek International
Address City IN Zip: 701 North Broadway Street, Huntington, Indiana 46750
Part 70 Renewal No.: T 069-18676-00021
Reviewer: CarrieAnn Paukowits
Date: September 14, 2007

Cafco Process Line (EU#41)

Pollutant	Maximum Rate (tons/hr)	Emission Factor (lbs/tons)	Uncontrolled Emission Rate (lbs/hr)	Uncontrolled Emission Rate (tons/yr)	Control Efficiency (%)	Controlled Emission Rate (lbs/hr)	Controlled Emission Rate (tons/yr)
PM	12.0	5.70	68.4	299.6	99.0%	0.684	2.996
PM-10	12.0	5.70	68.4	299.6	99.0%	0.684	2.996
SO2	0.0	0.00	0.00	0.00	0.0%	0.000	0.00
NOx	0.0	0.00	0.00	0.00	0.0%	0.000	0.00
VOC	0.0	0.00	0.00	0.00	0.0%	0.000	0.00
CO	0.0	0.00	0.00	0.00	0.0%	0.000	0.00

The emission factor for the Cafco Process Line was approved in the initial Title V permit, and is based on a measurement at CE#9. The applicant does not have a record of the measurement and no IDEM approved testing was performed. Therefore, testing will be required.

Process	Process Weight Rate (tons/hr)	Control Efficiency (%)	PM K	PM10 K	Moisture Content M (%)	Mean Wind Speed U (miles/hr)	PM Emission Factor E (lbs/ton)	PM10 Emission E (lbs/ton)
Automatic bagger (EU#21) at Cafco Process Line (EU#41)	12	80%	1	0.35	0.25	2.00	0.018	0.006
	PTE PM before Control (lbs/hr)	PTE PM before Control (tons/yr)	PTE PM10 before Control (lbs/hr)	PTE PM11 before Control (tons/yr)	PTE PM after control (lbs/hr)	PTE PM after control (tons/yr)	PTE PM10 after Control (lbs/hr)	PTE PM11 after Control (tons/yr)
	0.214	0.939	0.075	0.329	0.043	0.188	0.015	0.066

Emission factors for the automatic bagger are calculated based on AP-42, 13.2.4.3 for a drop operator
 $E = k \times 0.0032 \times (U/5)^{1.3} / (M/2)^{1.4}$

In 2007, a manual bagger was replaced by an automatic bagger with its own control device. Although bagging is part of the Cafco Process Line, emissions are calculated separately so that the emission factor for the Cafco Process Line can be evaluated with a single test, and so that IDEM can determine whether approval was required for the automatic bagger.

VOC Emissions

	Usage (gal/yr)	Weight % VOC	Weight % HAPs	PTE VOC (tons/yr)	PTE HAPs (tons/yr)
Dedust oil tank (EU#34)	133165	100%	0%	1.00	0.00
Dedust oil tank (EU#38)	133165	100%	0%	1.00	0.00
PEG400 tank (EU#35)	33429	100%	0%	1.00	0.00

VOC emissions are conservatively estimated emissions based on the emission rates calculated using EPA Tanks 4.0.9.

**Appendix A: Emission Calculations
Baghouse Operations**

Company Name: United States Mineral Products Company d.b.a. Isolatak International
 Address City IN Zip: 701 North Broadway Street, Huntington, Indiana 46750
 Part 70 Renewal No.: T 069-18676-00021
 Reviewer: CarrieAnn Paukowits
 Date: September 14, 2007

Emission Unit		EU#7 Front End Mineral Wool Bagger					
Pollutant	Maximum Rate (tons/hr)	Emission Factor (lbs/tons)	Uncontrolled Emission Rate (lbs/hr)	Uncontrolled Emission Rate (tons/yr)	Control Efficiency (%)	Controlled Emission Rate (lbs/hr)	Controlled Emission Rate (tons/yr)
PM	5.0	1.00	5.00	21.9	99.0%	0.050	0.219
PM-10	5.0	1.00	5.00	21.9	99.0%	0.050	0.219

Emission Unit		EU#12 Batch Blender					
Pollutant	Maximum Rate (tons/hr)	Emission Factor (lbs/tons)	Uncontrolled Emission Rate (lbs/hr)	Uncontrolled Emission Rate (tons/yr)	Control Efficiency (%)	Controlled Emission Rate (lbs/hr)	Controlled Emission Rate (tons/yr)
PM	5.0	1.00	5.00	21.9	99.0%	0.050	0.219
PM-10	5.0	1.00	5.00	21.9	99.0%	0.050	0.219

Emission Unit		EU#31 Ribbon Blender					
Pollutant	Maximum Rate (tons/hr)	Emission Factor (lbs/tons)	Uncontrolled Emission Rate (lbs/hr)	Uncontrolled Emission Rate (tons/yr)	Control Efficiency (%)	Controlled Emission Rate (lbs/hr)	Controlled Emission Rate (tons/yr)
PM	2.0	1.00	2.00	8.76	99.0%	0.020	0.088
PM-10	2.0	1.00	2.00	8.76	99.0%	0.020	0.088

The emission factors for these processes were approved in the initial Title V permit and are based on measurement at CE#5, controlling emissions from EU#7, and CE#6, controlling emissions from EU#12.

Silos - With Integral Control Devices

Emission Unit		EU#9 Gypsum Silo						
Pollutant	Maximum Rate (tons/hr)	Maximum Rate (tons/yr)	Emission Factor (lbs/tons)	Uncontrolled Emission Rate (lbs/hr)	Uncontrolled Emission Rate (tons/yr)	Control Efficiency (%)	Controlled Emission Rate (lbs/hr)	Controlled Emission Rate (tons/yr)
PM	54.0	105120	0.72	38.9	37.8	99.0%	0.389	0.378
PM-10	54.0	105120	0.46	24.8	24.2	99.0%	0.248	0.242

Emission Unit		EU#10 Chip Gypsum Silo						
Pollutant	Maximum Rate (tons/hr)	Maximum Rate (tons/yr)	Emission Factor (lbs/tons)	Uncontrolled Emission Rate (lbs/hr)	Uncontrolled Emission Rate (tons/yr)	Control Efficiency (%)	Controlled Emission Rate (lbs/hr)	Controlled Emission Rate (tons/yr)
PM	54.0	105120	0.72	38.9	37.8	99.0%	0.389	0.378
PM-10	54.0	105120	0.46	24.8	24.2	99.0%	0.248	0.242

Emission Unit		EU#11 Cement Silo						
Pollutant	Maximum Rate (tons/hr)	Maximum Rate (tons/yr)	Emission Factor (lbs/tons)	Uncontrolled Emission Rate (lbs/hr)	Uncontrolled Emission Rate (tons/yr)	Control Efficiency (%)	Controlled Emission Rate (lbs/hr)	Controlled Emission Rate (tons/yr)
PM	54.0	105120	0.72	38.9	37.8	99.0%	0.389	0.378
PM-10	54.0	105120	0.46	24.8	24.2	99.0%	0.248	0.242

PM and PM10 emission factors for the silos are from WEB FIRE, SCC 3-05-011-07 for cement unloading to elevated storage silo. These emission factors were approved for the process in the initial Part 70 Operating Permit. The maximum rate in tons/yr is based on the maximum hourly rate at the Cafco Process Line of 12 tons per hour.

**Appendix A: Emission Calculations
Baghouse Operations**

Company Name: **United States Mineral Products Company d.b.a. Isolatek International**
 Address City IN Zip: **701 North Broadway Street, Huntington, Indiana 46750**
 Part 70 Renewal No.: **T 069-18676-00021**
 Reviewer: **CarrieAnn Paukowits**
 Date: **September 14, 2007**

Insignificant Activities

Process	Throughput (lbs/hr)	PM Emission Factor (lbs/ton)	PM10 Emission Factor (lbs/ton)	PTE PM (lbs/hr)	PTE PM10 (lbs/hr)	PTE PM (tons/yr)	PTE PM10 (tons/yr)
Raw Material Receiving Yard (EU#29)	432000	0.00244	0.00116	0.527	0.251	2.308	1.097
Raw Material Batching Station (EU#30)	28800	0.00244	0.00116	0.035	0.017	0.154	0.073
One (1) mineral wool baler (EU#5)	24000	0.1	0.1	1.200	1.200	5.256	5.256
Mineral wool bin (EU#8)	20000	0.1	0.1	1.000	1.000	4.380	4.380
Debaler (EU#13)	10000	0.1	0.1	0.500	0.500	2.190	2.190
Totals:						14.288	12.997

Methodology

Receiving and Batching:
 The PM and PM10 emission factors were approved during the initial Title V review and are higher than the emission factors for Truck Unloading of crushed stone (SCC 3-05-020-32)
 Balers, debaler and bin:
 The PM and PM10 emission factors were approved during the initial Title V review. There are no AP-42 emission factors for these processes.

Unrestricted Potential Emissions (tons/yr)

Facility	Before Nonintegral Controls		Before Nonintegral Controls		After Controls		After Controls		Before and After Controls		Before and After Controls		Before and After Controls		Before and After Controls	
	PM	PM10	PM	PM10	PM	PM10	SO2	NOx	VOC	CO	Carbonyl Sulfide	Year Installed	Year Installed	Year Installed	Year Installed	
Cupola EU#1	350	350	2.10	2.10	252	50.46	0.00	7884	94.6	<1960						
Cupola EU#2	350	350	2.10	2.10	252	50.46	0.00	7884	94.6	<1960						
Blowchamber EU#3	210	210	21.0	21.0	15.2	0.00	15.8	0.00	0.00	<1978						
Blowchamber EU#4	210	210	21.0	21.0	15.2	0.00	15.8	0.00	0.00	<1978						
Insignificant gypsum silo EU#9*	0.378	0.242	0.38	0.24	0.00	0.00	0.00	0.00	0.00	<1980						
Insignificant raw material receiving yard EU#29	2.31	1.10	2.31	1.10	0.00	0.00	0.00	0.00	0.00	<1980						
Insignificant batching station EU#30	0.154	0.073	0.154	0.073	0.00	0.00	0.00	0.00	0.00	<1980						
Caftco Process Line EU#41	299.59	299.59	3.00	3.00	0.00	0.00	2.00	0.00	0.00	1980, 1997, 2000						
Insignificant debaler EU#13	2.19	2.19	2.19	2.19	0.00	0.00	0.00	0.00	0.00	1980						
Insignificant mineral wool bin EU#8	4.38	4.38	4.38	4.38	0.00	0.00	0.00	0.00	0.00	1983/84						
Front end mineral wool bagger EU#7	21.90	21.90	0.219	0.219	0.00	0.00	0.00	0.00	0.00	1987						
Ribbon blender EU#31	8.76	8.76	0.088	0.088	0.00	0.00	0.00	0.00	0.00	1988						
Insignificant cement silo EU#11*	0.378	0.242	0.38	0.24	0.00	0.00	0.00	0.00	0.00	1990						
Insignificant PEG 400 tank EU#35	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1990						
Insignificant chipped gypsum silo EU#10*	0.378	0.242	0.38	0.24	0.00	0.00	0.00	0.00	0.00	1991						
Batch blender EU#12	21.9	21.9	0.219	0.219	0.00	0.00	0.00	0.00	0.00	1993						
Insignificant mineral wool baler EU#5	5.26	5.26	5.26	5.26	0.00	0.00	0.00	0.00	0.00	2005						
Automatic bagger at the Caftco Process Line EU#21	0.939	0.329	0.188	0.015	0.00	0.00	0.00	0.00	0.00	2007						
Total	1489	1487	65.4	63.5	535	101	34.5	15768	189							

Emissions from only one (1) of the three (3) silos are counted towards the total because the annual throughput at the silos is constricted by the throughput at the Caftco Process Line to 105,120 tons per year (12 tons per hour x 8.76 hrs/yr), total. Emissions are after control by the integral baghouses on the silos.

Limited Potential to Emit (tons/yr)

Facility	PTE		PTE		PTE		PTE		PTE		Year Installed
	PM	PM10	SO2	NOx	VOC	CO	Carbonyl Sulfide				
Cupola EU#1	2.19	2.19	252	50.5	0.00	7884	94.6	<1960			
Cupola EU#2	2.19	2.19	252	50.5	0.00	7884	94.6	<1960			
Blowchamber EU#3	45.6	45.6	15.2	0.00	15.8	0.00	0.00	<1978			
Blowchamber EU#4	45.6	45.6	15.2	0.00	15.8	0.00	0.00	<1978			
Pre-Aug. 7, 1977 total	95.5	95.5	535	101	31.5	15768	189				
Insignificant gypsum silo EU#9*	22.5	13.8	0.00	0.00	0.00	0.00	0.00	<1980			
Insignificant raw material receiving yard EU#29	2.31	1.10	0.00	0.00	0.00	0.00	0.00	<1980			
Insignificant batching station EU#30	0.154	0.073	0.00	0.00	0.00	0.00	0.00	<1980			
Pre-1980 modification total	24.9	14.97	0.00	0.00	0.00	0.00	0.00				
Caftco Process Line EU#41	22.8	12.8	0.00	0.00	2.00	0.00	2.00	980, 1997, 2000			
Insignificant debaler EU#13	2.19	2.19	0.00	0.00	0.00	0.00	0.00	1980			
1980 modification total	24.97	14.98	0.00	0.00	2.00	0.00	0.00				
Insignificant mineral wool bin EU#8	4.38	4.38	0.00	0.00	0.00	0.00	0.00	1983/84			
Front end mineral wool bagger EU#7	21.9	14.98	0.00	0.00	0.00	0.00	0.00	1987			
Ribbon blender EU#31	8.76	8.76	0.00	0.00	0.00	0.00	0.00	1988			
Insignificant cement silo EU#11*	24.97	14.98	0.00	0.00	0.00	0.00	0.00	1990			
Insignificant PEG 400 tank EU#35	0.000	0	0.00	0.00	1.00	0.00	0.00	1990			
Insignificant chipped gypsum silo EU#10*	24.97	14.98	0.00	0.00	0.00	0.00	0.00	1991			
Batch blender EU#12	21.9	14.98	0.00	0.00	0.00	0.00	0.00	1993			
Insignificant mineral wool baler EU#5	5.256	5.256	0.00	0.00	0.00	0.00	0.00	2005			
Automatic bagger at the Caftco Process Line EU#21	0.939	0.329	0.00	0.00	0.00	0.00	0.00	2007			
Total	258	204	535	101	34.5	15768	189				

Values that are limits in the permit are italicized.

The PM from the cupolas and blowchambers is limited by 326 IAC 6-3. The PM and PM10 from the other processes are limited in order to render 326 IAC 2-2 not applicable. Since PM10 is equal to PM for the cupolas and blowchambers, the PTE of PM10 is set equal to the PTE of PM.