

PART 70 OPERATING PERMIT OFFICE OF AIR MANAGEMENT

**Corydon Crushed Stone
1100 Quarry Road
Corydon, IN 47112**

(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.

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 and 326 IAC 2-1-3.2 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: T061-7523-00006	
Issued by: Janet G. McCabe, Assistant Commissioner Office of Air Management	Issuance Date:

SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Management (OAM). 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)]

The Permittee owns and operates a stone quarry that includes two (2) stationary crushed stone plants and one (1) stationary asphalt batch mix plant.

Responsible Official: Bernard P. Bachman, Plant Manager
Source Address: 1100 Quarry Road, Corydon, IN 47112
Mailing Address: PO Box 577, Corydon, IN 47112-0577
SIC Code: 3281
County Location: Harrison
County Status: Attainment for all criteria pollutants
Source Status: Part 70 Permit Program
Major Source under PSD Rules

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) One (1) crushed stone plant, identified as EU-01A, constructed in 1958, with a maximum capacity of 450 tons per hour, equipped with the following:
 - (1) one (1) conveyor at a maximum capacity of 450 tons per hour,
 - (2) one (1) primary crusher at a maximum capacity of 450 tons per hour,
 - (3) one (1) secondary crusher at a maximum capacity of 324 tons per hour,
 - (4) one (1) tertiary crusher at a maximum capacity of 180 tons per hour,
 - (5) one (1) fines screen at a maximum capacity of 450 tons per hour,
 - (6) one (1) hopper at a maximum capacity of 450 tons per hour; and
 - (7) a water fogging system for dust control.

- (b) One (1) crushed stone plant, identified as EU-01B, constructed in 1994, with a maximum capacity of 200 tons per hour, equipped with the following:
 - (1) one (1) conveyor at a maximum capacity of 200 tons per hour,
 - (2) one (1) primary crusher at a maximum capacity of 130 tons per hour,
 - (3) one (1) secondary crusher at a maximum capacity of 138 tons per hour,
 - (4) one (1) tertiary crusher at a maximum capacity of 38 tons per hour,
 - (5) one (1) fines screen at a maximum capacity of 200 tons per hour,
 - (6) one (1) hopper at a maximum capacity of 200 tons per hour; and
 - (7) a water fogging system for dust control.

- (c) One (1) asphalt plant, identified as EU-02, constructed in 1990, equipped with one (1) batch mix dryer utilizing natural gas at a maximum rated capacity of 8 million British thermal units per hour (MMBtu/hr), with a maximum capacity of 250 tons per hour, using one (1) cyclone and one (1) baghouse in series for air pollution control, and exhausting to one (1) stack, identified as S1.

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 does not currently have any insignificant activities, as defined in 326 IAC 2-7-1 (21) that have applicable requirements.

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 Permit No Defense [326 IAC 2-1-10] [IC 13]

- (a) Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a Part 70 permit under 326 IAC 2-7.
- (b) This prohibition shall not apply to alleged violations of applicable requirements for which the Commissioner has granted a permit shield in accordance with 326 IAC 2-1-3.2 or 326 IAC 2-7-15, as set out in this permit in the Section B condition entitled "Permit Shield."

B.2 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, any applicable definitions found in IC 13-11, 326 IAC 1-2 and 326 IAC 2-7 shall prevail.

B.3 Permit Term [326 IAC 2-7-5(2)]

This permit is issued for a fixed term of five (5) years from the effective date, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3.

B.4 Enforceability [326 IAC 2-7-7(a)]

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

B.5 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.6 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.7 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.8 Duty to Supplement and Provide Information [326 IAC 2-7-4(b)] [326 IAC 2-7-5(6)(E)]

- (a) The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

- (b) The Permittee shall furnish to IDEM, OAM, within a reasonable time, any information that IDEM, OAM, 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.
- (c) Upon request, the Permittee shall also furnish to IDEM, OAM, copies of records required to be kept by this permit. If the Permittee wishes to assert a claim of confidentiality over any of the furnished records, the Permittee must furnish such records to IDEM, OAM, along with a claim of confidentiality under 326 IAC 17. If requested by IDEM, OAM, or the U.S. EPA, to furnish copies of requested records directly to U. S. EPA, and if the Permittee is making a claim of confidentiality regarding the furnished records, then the Permittee must furnish such confidential records directly to the U.S. EPA along with a claim of confidentiality under 40 CFR 2, Subpart B.

B.9 Compliance with Permit Conditions [326 IAC 2-7-5(6)(A)] [326 IAC 2-7-5(6)(B)]

- (a) The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit constitutes a violation of the Clean Air Act and is grounds for:
 - (1) Enforcement action;
 - (2) Permit termination, revocation and reissuance, or modification; or
 - (3) Denial of a permit renewal application.
- (b) 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.

B.10 Certification [326 IAC 2-7-4(f)] [326 IAC 2-7-6(1)]

- (a) Any application form, report, or compliance certification submitted under this permit shall contain certification by a responsible official of truth, accuracy, and completeness. This certification, and any other certification required under this permit, 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, on the attached Certification Form, with each submittal.
- (c) A responsible official is defined at 326 IAC 2-7-1(34).

B.11 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. The certification shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in letter form no later than July 1 of each year to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

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, OAM, on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
 - (1) The identification of each term or condition of this permit that is the basis of the certification;
 - (2) The compliance status;
 - (3) Whether compliance was based on continuous or intermittent data;
 - (4) The methods used for determining compliance of the source, currently and over the reporting period consistent with 326 IAC 2-7-5(3);
 - (5) Any insignificant activity that has been added without a permit revision; and
 - (6) Such other facts, as specified in Sections D of this permit, as IDEM, OAM, 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.12 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]

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- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMP) within ninety (90) days after issuance of this permit, 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;

- (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

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

Indiana Department of Environmental Management
Compliance Branch, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

- (b) The Permittee shall implement the Preventive Maintenance Plans as necessary to ensure that lack of proper maintenance does not cause or contribute to a violation of any limitation on emissions or potential to emit.
- (c) PMP's shall be submitted to IDEM, OAM, upon request and shall be subject to review and approval by IDEM, OAM.

B.13 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, except as provided in 326 IAC 2-7-16.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:
 - (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
 - (2) The permitted facility was at the time being properly operated;
 - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
 - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAM, 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 Management,
Compliance Section), or
Telephone Number: 317-233-5674 (ask for Compliance Section)
Facsimile Number: 317-233-5967

- (5) For each emergency lasting one (1) hour or more, the Permittee submitted notice, either in writing or facsimile, of the emergency to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

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) for sources subject to this rule after the effective date of this rule. This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) IDEM, OAM, 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, OAM, by telephone or facsimile of an emergency lasting more than one (1) hour in compliance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.
- (g) Operations may continue during an emergency only if the following conditions are met:
 - (1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
 - (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
 - (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and

- (B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value.

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

B.14 Permit Shield [326 IAC 2-7-15]

- (a) This condition provides a permit shield as addressed in 326 IAC 2-7-15.
- (b) This permit shall be used as the primary document for determining compliance with applicable requirements established by previous issued permits. Compliance with the conditions of this permit shall be deemed in compliance with any applicable requirements as of the date of permit issuance, provided that:
 - (1) The applicable requirements are included and specifically identified in this permit; or
 - (2) The permit contains an explicit determination or concise summary of a determination that other specifically identified requirements are not applicable.
- (c) 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, including any term or condition from a previously issued construction or operation permit, IDEM, OAM, 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.
- (d) 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.
- (e) 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.
- (f) 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).

- (g) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAM, has issued the modifications. [326 IAC 2-7-12(c)(7)]
- (h) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAM, has issued the modification. [326 IAC 2-7-12(b)(8)]

B.15 Multiple Exceedances [326 IAC 2-7-5(1)(E)]

Any exceedance of a permit limitation or condition contained in this permit, which occurs contemporaneously with an exceedance of an associated surrogate or operating parameter established to detect or assure compliance with that limit or condition, both arising out of the same act or occurrence, shall constitute a single potential violation of this permit.

B.16 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 Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

within ten (10) calendar days from the date of the discovery of the deviation.

- (b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit or a rule. It does not include:
 - (1) An excursion from compliance monitoring parameters as identified in Section D of this permit unless tied to an applicable rule or limit; or
 - (2) An emergency as defined in 326 IAC 2-7-1(12); or
 - (3) Failure to implement elements of the Preventive Maintenance Plan unless lack of maintenance has caused or contributed to a deviation.
 - (4) Failure to make or record information required by the compliance monitoring provisions of Section D unless such failure exceeds 5% of the required data in any calendar quarter.

A Permittee's failure to take the appropriate response step when an excursion of a compliance monitoring parameter has occurred is a deviation.

- (c) Written notification shall be submitted on the attached Emergency/Deviation Occurrence Reporting Form or its substantial equivalent. The notification does not need to be certified by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (d) Proper notice submittal under 326 IAC 2-7-16 satisfies the requirement of this subsection.

B.17 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 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)]
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAM, 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, OAM, 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, OAM, at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAM, may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

B.18 Permit Renewal [326 IAC 2-7-4]

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAM, 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).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

- (b) Timely Submittal of Permit Renewal [326 IAC 2-7-4(a)(1)(D)]
 - (1) A timely renewal application is one that is:
 - (A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and

- (B) 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, OAM, on or before the date it is due. [326 IAC 2-5-3]
- (2) If IDEM, OAM, upon receiving a timely and complete 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.
- (c) Right to Operate After Application for Renewal [326 IAC 2-7-3]
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, OAM, 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, OAM, any additional information identified as being needed to process the application.
- (d) United States Environmental Protection Agency Authority [326 IAC 2-7-8(e)]
If IDEM, OAM, fails to act in a timely way on a Part 70 permit renewal, the U.S. EPA may invoke its authority under Section 505(e) of the Clean Air Act to terminate or revoke and reissue a Part 70 permit.

B.19 Permit Amendment or Modification [326 IAC 2-7-11] [326 IAC 2-7-12]

- (a) The Permittee must comply with 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 Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

Any such application should be certified by the "responsible official" as defined by 326 IAC 2-7-1(34) only if a certification is required by the terms of the applicable rule.
- (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.20 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)(D)(i) 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.21 Changes Under Section 502(b)(10) of the Clean Air Act [326 IAC 2-7-20(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) and the following additional conditions:

- (a) For each such change, the required written notification shall include a brief description of the change within the source, the date on which the change will occur, any change in emissions, and any permit term or condition that is no longer applicable as a result of the change.
- (b) The permit shield, described in 326 IAC 2-7-15, shall not apply to any change made under 326 IAC 2-7-20(b).

B.22 Operational Flexibility [326 IAC 2-7-20]

- (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 approval required by 326 IAC 2-1 has been obtained;
- (3) The changes do not result in emissions which exceed the emissions allowable under 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 Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

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 which document, on a rolling five (5) year basis, all such changes and emissions trading that are subject to 326 IAC 2-7-20(b), (c), or (e) and makes such records available, upon reasonable request, for public review.

Such records shall consist of all information required to be submitted to IDEM, OAM, in the notices specified in 326 IAC 2-7-20(b), (c)(1), and (e)(2).

- (b) 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 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 increases and decreases in emissions in 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, OAM, 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.23 Construction Permit Requirement [326 IAC 2]

Except as allowed by Indiana P.L. 130-1996 Section 12, as amended by P.L. 244-1997, modification, construction, or reconstruction shall be approved as required by and in accordance with 326 IAC 2.

B.24 Inspection and Entry [326 IAC 2-7-6(2)]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, the Permittee shall allow IDEM, OAM, 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) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.
[326 IAC 2-7-6(6)]
 - (1) The Permittee may assert a claim that, in the opinion of the Permittee, information removed or about to be removed from the source by IDEM, OAM, or an authorized representative, contains information that is confidential under IC 5-14-3-4(a). The claim shall be made in writing before or at the time the information is removed from the source. In the event that a claim of confidentiality is so asserted, neither IDEM, OAM, nor an authorized representative, may disclose the information unless and until IDEM, OAM, makes a determination under 326 IAC 17-1-7 through 326 IAC 17-1-9 that the information is not entitled to confidential treatment and that determination becomes final. [IC 5-14-3-4; IC 13-14-11-3; 326 IAC 17-1-7 through 326 IAC 17-1-9]
 - (2) The Permittee, and IDEM, OAM, acknowledge that the federal law applies to claims of confidentiality made by the Permittee with regard to information removed or about to be removed from the source by U.S. EPA. [40 CFR Part 2, Subpart B]

B.25 Transfer of Ownership or Operation [326 IAC 2-1-6] [326 IAC 2-7-11]
Pursuant to 326 IAC 2-1-6 and 326 IAC 2-7-11:

- (a) In the event that ownership of this source is changed, the Permittee shall notify IDEM, OAM, Permits Branch, within thirty (30) days of the change. Notification shall include a written agreement containing a specific date for transfer of permit responsibility, coverage, and liability between the Permittee and the new owner.
- (b) The written notification shall be sufficient to transfer the permit to the new owner by an administrative amendment pursuant to 326 IAC 2-7-11. 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).
- (c) IDEM, OAM, shall reserve the right to issue a new permit.

B.26 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)]

- (a) The Permittee shall pay annual fees to IDEM, OAM, within thirty (30) calendar days of receipt of a billing. If the Permittee does not receive a bill from IDEM, OAM the applicable fee is due April 1 of each year.

- (b) Failure to pay may result in administrative enforcement action, or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-0425 (ask for OAM, Technical Support and Modeling Section), to determine the appropriate permit fee.

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

C.1 Particulate Matter Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) pounds per hour [326 IAC 6-3-2(c)]

Pursuant to 326 IAC 6-3-2(c), the allowable particulate matter emissions rate from any process not already regulated by 326 IAC 6-1 or any New Source Performance Standard, and which has a maximum process weight rate less than 100 pounds per hour shall not exceed 0.551 pounds per hour.

C.2 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), 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 Fugitive Particulate Matter Emission Limitations [326 IAC 6-5]

Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the plan submitted on December 12, 1996. The plan consists of:

(a) Fugitive particulate matter emissions from paved roads, unpaved roads, and parking lots shall be controlled by one or more of the following methods:

Paved roads and parking lots:

- (1) cleaning by vacuum sweeping on an as needed basis (monthly at a minimum);

- (2) power brooming while wet either from rain or application of water.

Unpaved roads and parking lots:

- (1) paving with asphalt;
 - (2) treating with emulsified asphalt on an as needed basis;
 - (3) treating with water on an as needed basis;
 - (4) double chip and seal the road surface and maintained on an as needed basis.
- (b) Fugitive particulate matter emissions from aggregate stockpiles shall be controlled by one or more of the following methods on an as needed basis:
 - (1) maintaining minimum size and number of stock piles of aggregate;
 - (2) treating around the stockpile area with emulsified asphalt;
 - (3) treating around the stockpile area with water;
 - (4) treating the stockpiles with water.
 - (c) Fugitive particulate matter emissions from outdoor conveying of aggregates shall be controlled by the following method on an as needed basis:
 - (1) applying water at the feed and the intermediate points.
 - (d) Fugitive particulate matter emissions from the transfer of aggregates shall be controlled by one of the following methods:
 - (1) minimize the vehicular distance between transfer points;
 - (2) enclose the transfer points;
 - (3) apply water on transfer points on an as needed basis.
 - (e) Fugitive particulate matter emissions from transportation of aggregate by truck, front end loader, etc. shall be controlled by one of the following methods:
 - (1) tarping the aggregate hauling vehicles;
 - (2) maintain vehicle bodies in a condition to prevent leakage;
 - (3) spray the aggregates with water;
 - (4) maintain a 10 MPH speed limit in the yard.
 - (f) Fugitive particulate matter emissions from the loading and unloading of aggregate shall be controlled by one of the following methods:
 - (1) reduce free fall distance to a minimum;
 - (2) reduce the rate of discharge of the aggregate;
 - (3) spray the aggregate with water on an as needed basis.

C.7 Operation of Equipment [326 IAC 2-7-6(6)]

All air pollution control equipment listed in this permit and used to comply with an applicable requirement shall be operated at all times that the emission units vented to the control equipment are in operation.

C.8 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61.140]

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

- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
 - (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
 - (2) If there is a change in the following:
 - (A) Asbestos removal or demolition start date;
 - (B) Removal or demolition contractor; or
 - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Asbestos Section, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

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 emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-4 emission control requirements are mandatory for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **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 that the inspector be accredited is federally enforceable.

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

C.9 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 methods approved by IDEM, OAM.

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 Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

no later than thirty-five (35) days prior to the intended test date. The Permittee shall submit a notice of the actual test date to the above address so that it is received at least two weeks prior to the test date.

- (b) All test reports must be received by IDEM, OAM within forty-five (45) days after the completion of the testing. An extension may be granted by the Commissioner, if the source submits to IDEM, OAM, a reasonable written explanation within five (5) days prior to the end of the initial forty-five (45) day period.

The documentation submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

C.10 Compliance Schedule [326 IAC 2-7-6(3)]

The Permittee:

- (a) Has certified that all facilities at this source are in compliance with all applicable requirements; and
- (b) Has submitted a statement that the Permittee will continue to comply with such requirements; and
- (c) Will comply with such applicable requirements that become effective during the term of this permit.

C.11 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

Compliance with applicable requirements shall be documented as required by this permit. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment, no more than ninety (90) days after receipt of this permit. If due to circumstances beyond its control, this schedule cannot be met, the Permittee may extend compliance schedule an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

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).

C.12 Maintenance of Monitoring Equipment [326 IAC 2-7-5(3)(A)(iii)]

- (a) In the event that a breakdown of the monitoring equipment occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem. To the extent practicable, supplemental or intermittent monitoring of the parameter should be implemented at intervals no less frequent than required in Section D of this permit until such time as the monitoring equipment is back in operation. In the case of continuous monitoring, supplemental or intermittent monitoring of the parameter should be implemented at intervals no less than one (1) hour until such time as the continuous monitor is back in operation.
- (b) The Permittee shall install, calibrate, quality assure, maintain, and operate all necessary monitors and related equipment. In addition, prompt corrective action shall be initiated whenever indicated.

C.13 Monitoring Methods [326 IAC 3]

Any monitoring or testing performed to meet the applicable requirements of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, or other approved methods as specified in this permit.

C.14 Pressure Gauge Specifications

Whenever a condition in this permit requires the measurement of pressure drop across any part of the unit or its control device, the gauge employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent ($\pm 2\%$) of full scale reading.

Corrective Actions and Response Steps [326 IAC 2-7-5] [326 IAC 2-7-6]

C.15 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 December 12, 1996.
- (b) If the ERP is disapproved by IDEM, OAM, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP.
- (c) These ERPs shall state those actions that will be taken, when each episode level is declared, to reduce or eliminate emissions of the appropriate air pollutants.
- (d) Said ERPs shall also identify the sources of air pollutants, the approximate amount of reduction of the pollutants, and a brief description of the manner in which the reduction will be achieved.
- (e) Upon direct notification by IDEM, OAM, 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.16 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68.215]

If a regulated substance, subject to 40 CFR 68, is present in a process in more than the threshold quantity, 40 CFR 68 is an applicable requirement and the Permittee shall:

- (a) Submit:
- (1) A compliance schedule for meeting the requirements of 40 CFR 68 by the date provided in 40 CFR 68.10(a); or
 - (2) As a part of the compliance certification submitted under 326 IAC 2-7-6(5), a certification statement that the source is in compliance with all the requirements of 40 CFR 68, including the registration and submission of a Risk Management Plan (RMP); and
 - (3) A verification to IDEM, OAM, that a RMP or a revised plan was prepared and submitted as required by 40 CFR 68.
- (b) Provide annual certification to IDEM, OAM, that the Risk Management Plan is being properly implemented.

All documents submitted pursuant to this condition shall include the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

C.17 Compliance Monitoring Plan - Failure to Take Response Steps [326 IAC 2-7-5][326 IAC 2-7-6]
[326 IAC 1-6]

- (a) The Permittee is required to implement a compliance monitoring plan to ensure that reasonable information is available to evaluate its continuous compliance with applicable requirements. This compliance monitoring plan is comprised of:
- (1) This condition;
 - (2) The Compliance Determination Requirements in Section D of this permit;
 - (3) The Compliance Monitoring Requirements in Section D of this permit;
 - (4) The Record Keeping and Reporting Requirements in Section C (Monitoring Data Availability, General Record Keeping Requirements, and General Reporting Requirements) and in Section D of this permit; and
 - (5) A Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. CRP's shall be submitted to IDEM, OAM upon request and shall be subject to review and approval by IDEM, OAM. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee and maintained on site, and is comprised of :
 - (A) Response steps that will be implemented in the event that compliance related information indicates that a response step is needed pursuant to the requirements of Section D of this permit; and
 - (B) A time schedule for taking such response steps including a schedule for devising additional response steps for situations that may not have been predicted.

- (b) For each compliance monitoring condition of this permit, appropriate response steps shall be taken when indicated by the provisions of that compliance monitoring condition. Failure to perform the actions detailed in the compliance monitoring conditions or failure to take the response steps within the time prescribed in the Compliance Response Plan, shall constitute a violation of the permit unless taking the response steps set forth in the Compliance Response Plan would be unreasonable.
- (c) After investigating the reason for the excursion, the Permittee is excused from taking further response steps for any of the following reasons:
 - (1) The monitoring equipment malfunctioned, giving a false reading. This shall be an excuse from taking further response steps providing that prompt action was taken to correct the monitoring equipment.
 - (2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for an administrative amendment to the permit, and such request has not been denied or;
 - (3) An automatic measurement was taken when the process was not operating; or
 - (4) The process has already returned to operating within "normal" parameters and no response steps are required.
- (d) Records shall be kept of all instances in which the compliance related information was not met and of all response steps taken. In the event of an emergency, the provisions of 326 IAC 2-7-16 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.

C.18 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 corrective actions. The Permittee shall submit a description of these corrective actions to IDEM, OAM, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize emissions from the affected facility while the corrective actions are being implemented. IDEM, OAM shall notify the Permittee within thirty (30) days, if the corrective actions taken are deficient. The Permittee shall submit a description of additional corrective actions taken to IDEM, OAM within thirty (30) days of receipt of the notice of deficiency. IDEM, OAM reserves the authority to use enforcement activities to resolve noncompliant stack tests.
- (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, OAM that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAM may extend the retesting deadline. Failure of the second test to demonstrate compliance with the appropriate permit conditions may be grounds for immediate revocation of the permit to operate the affected facility.

The documents submitted pursuant to this condition do not 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.19 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) The Permittee shall submit an annual emission statement certified pursuant to the requirements of 326 IAC 2-6, that must be received by July 1 of each year and must comply with the minimum requirements specified in 326 IAC 2-6-4. The annual emission statement shall meet the following requirements:
 - (1) Indicate actual emissions of criteria pollutants from the source, in compliance with 326 IAC 2-6 (Emission Reporting);
 - (2) Indicate actual emissions of other regulated pollutants from the source, for purposes of Part 70 fee assessment.
- (b) The annual emission statement covers the twelve (12) consecutive month time period starting January 1 and ending December 31. The annual emission statement must be submitted to:

Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015
- (c) The annual 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, OAM, on or before the date it is due.

C.20 Monitoring Data Availability [326 IAC 2-7-6(1)] [326 IAC 2-7-5(3)]

- (a) With the exception of performance tests conducted in accordance with Section C-Performance Testing, all observations, sampling, maintenance procedures, and record keeping, required as a condition of this permit shall be performed at all times the equipment is operating at normal representative conditions.
- (b) As an alternative to the observations, sampling, maintenance procedures, and record keeping of subsection (a) above, when the equipment listed in Section D of this permit is not operating, the Permittee shall either record the fact that the equipment is shut down or perform the observations, sampling, maintenance procedures, and record keeping that would otherwise be required by this permit.
- (c) If the equipment is operating but abnormal conditions prevail, additional observations and sampling should be taken with a record made of the nature of the abnormality.
- (d) If for reasons beyond its control, the operator fails to make required observations, sampling, maintenance procedures, or record keeping, reasons for this must be recorded.
- (e) At its discretion, IDEM may excuse such failure providing adequate justification is documented and such failures do not exceed five percent (5%) of the operating time in any quarter.

- (f) Temporary, unscheduled unavailability of staff qualified to perform the required observations, sampling, maintenance procedures, or record keeping shall be considered a valid reason for failure to perform the requirements stated in (a) above.

C.21 General Record Keeping Requirements [326 IAC 2-7-5(3)][326 IAC 2-7-6]

- (a) Records of all required monitoring data and support information 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 kept at the source location for a minimum of three (3) years and available upon the request of an IDEM, OAM, representative. 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 written request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Records of required monitoring information shall include, where applicable:
 - (1) The date, place, and time of sampling or measurements;
 - (2) The dates analyses were performed;
 - (3) The company or entity performing the analyses;
 - (4) The analytic techniques or methods used;
 - (5) The results of such analyses; and
 - (6) The operating conditions existing at the time of sampling or measurement.
- (c) Support information shall include, where applicable:
 - (1) Copies of all reports required by this permit;
 - (2) All original strip chart recordings for continuous monitoring instrumentation;
 - (3) All calibration and maintenance records;
 - (4) Records of preventive maintenance shall be sufficient to demonstrate that improper maintenance did not cause or contribute to a violation of any limitation on emissions or potential to emit. To be relied upon subsequent to any such violation, these records may include, but are not limited to: work orders, parts inventories, and operator's standard operating procedures. Records of response steps taken shall indicate whether the response steps were performed in accordance with the Compliance Response Plan required by Section C - Compliance Monitoring Plan - Failure to take Response Steps, of this permit, and whether a deviation from a permit condition was reported. All records shall briefly describe what maintenance and response steps were taken and indicate who performed the tasks.
- (d) All record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

C.22 General Reporting Requirements [326 IAC 2-7-5(3)(C)]

- (a) To affirm that the source has met all the compliance monitoring requirements stated in this permit the source shall submit a Quarterly Compliance Monitoring Report. Any deviation from the requirements and the date(s) of each deviation must be reported.
- (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 Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015
- (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, OAM, on or before the date it is due.
- (d) Unless otherwise specified in this permit, any report shall be submitted within thirty (30) days of the end of the reporting period.
- (e) All instances of deviations as described in Section B- Deviations from Permit Requirements Conditions must be clearly identified in such reports.
- (f) Any corrective actions or response steps taken as a result of each deviation must be clearly identified in such reports.
- (g) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period.

The documents submitted pursuant to this condition do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Stratospheric Ozone Protection

C.23 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)]

(a) One (1) crushed stone plant, identified as EU-01A, constructed in 1958, with a maximum capacity of 450 tons per hour, equipped with the following:

- (1) one (1) conveyor at a maximum capacity of 450 tons per hour,
- (2) one (1) primary crusher at a maximum capacity of 450 tons per hour,
- (3) one (1) secondary crusher at a maximum capacity of 324 tons per hour,
- (4) one (1) tertiary crusher at a maximum capacity of 180 tons per hour,
- (5) one (1) fines screen at a maximum capacity of 450 tons per hour,
- (6) one (1) hopper at a maximum capacity of 450 tons per hour; and
- (7) a water fogging system for dust control.

(b) One (1) crushed stone plant, identified as EU-01B, constructed in 1994, with a maximum capacity of 200 tons per hour, equipped with the following:

- (1) one (1) conveyor at a maximum capacity of 200 tons per hour,
- (2) one (1) primary crusher at a maximum capacity of 130 tons per hour,
- (3) one (1) secondary crusher at a maximum capacity of 138 tons per hour,
- (4) one (1) tertiary crusher at a maximum capacity of 38 tons per hour,
- (5) one (1) fines screen at a maximum capacity of 200 tons per hour,
- (6) one (1) hopper at a maximum capacity of 200 tons per hour; and
- (7) a water fogging system for dust control.

Emission Limitations and Standards

D.1.1 Opacity

Pursuant to 326 IAC 12, (40 CFR Part 60.670-676, Subpart OOO) "Standard of Performance for Nonmetallic Mineral Processing Plant", the crushed stone plant (EU-01B) shall not discharge or cause the discharge into the atmosphere from any transfer point on belt conveyors or from any other affected facility any fugitive emissions which exhibit greater than 10 % opacity, and any crusher at which a capture system is not used, fugitive emissions which exhibit greater than 15 % opacity.

D.1.2 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 this facility and its control device.

Compliance Determination Requirements

D.1.3 Testing Requirements [326 IAC 2-7-6(1),(6)]

The Permittee is not required to test these facilities by this permit. However, IDEM may require compliance testing at any specific time when necessary to determine if the facility is in compliance. If testing is required by IDEM, compliance with the PM limits specified in Condition D.1.1 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

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

D.1.4 Visible Emissions Notations

- (a) Daily visible emission notations of the crushed stone plants system ductworks and associated components exhaust for evidence of holes or erosions shall be performed during normal daylight operations when facilities are in operation. 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) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.

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

D.1.5 Record Keeping Requirements

- (a) To document compliance with Condition D.1.4, the Permittee shall maintain records of daily visible emission notations of the crushed stone plants system ductworks and associated components exhaust.
- (b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.2 FACILITY OPERATION CONDITIONS

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

One (1) asphalt plant, identified as EU-02, constructed in 1990, equipped with one (1) batch mix dryer utilizing natural gas at a maximum rated capacity of 8 million British thermal units per hour (MMBtu/hr), with a maximum capacity of 250 tons per hour, using one (1) cyclone and one (1) baghouse in series for air pollution control, and exhausting to one (1) stack, identified as S1.

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

D.2.1 Particulate Matter (PM) [326 IAC 12] [40CFR Part 60.90]

Pursuant to 326 IAC 12, (40 CFR Part 60.90, Subpart I) "Standards of Performance for Hot Mix Asphalt Facilities", the particulate matter emissions from the mixing and drying operations shall be limited to 0.04 grains per dry standard cubic foot (gr/dscf). This is equivalent to a particulate matter emission rate of 11.9 pounds per hour.

D.2.2 Opacity

Pursuant to 326 IAC 12, (40 CFR Part 60.92, Subpart I) "Standards of Performance for Hot Mix Asphalt Facilities", the mixing and drying operations shall not discharge or cause the discharge into the atmosphere any gases which exhibit 20 percent opacity or greater.

D.2.3 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 this facility and its control device.

Compliance Determination Requirements

D.2.4 Testing Requirements [326 IAC 2-7-6(1),(6)]

Pursuant to 326 IAC 12, (40 CFR Part 60.90, Subpart I) "Standards of Performance for Hot Mix Asphalt Facilities", during the period between 30 and 36 months after issuance of this permit, the Permittee shall perform PM and opacity testing for the asphalt plant utilizing Method 5 for PM and Method 9 for opacity (40 CFR 60, Appendix A), or other methods as approved by the Commissioner. This test shall be performed once during the life of the permit from the date of this valid compliance demonstration. In addition to these requirements, IDEM may require compliance testing when necessary to determine if the facility is in compliance.

D.2.5 Particulate Matter (PM)

The cyclone and baghouse for PM control shall be in operation at all times when the asphalt plant is in operation.

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

D.2.6 Visible Emissions Notations

- (a) Daily visible emission notations of the asphalt plant baghouse stack exhaust shall be performed 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) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.

D.2.7 Parametric Monitoring

The Permittee shall record the total static pressure drop across the baghouse used in conjunction with the asphalt plant, at least once per shift when the asphalt plant is in operation. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across the baghouse shall be maintained within the range of 5.0 and 8.0 inches of water or a range established during the latest stack test. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above mentioned range for any one reading.

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

D.2.8 Baghouse Inspections

An inspection shall be performed each calendar quarter of all bags controlling the asphalt plant. All defective bags shall be replaced.

D.2.9 Broken or Failed Bag Detection

In the event that bag failure has been observed:

- (a) The affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) hours of discovery of the failure and shall include a timetable for completion. 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 single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

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

D.2.10 Record Keeping Requirements

- (a) To document compliance with Condition D.2.6, the Permittee shall maintain records of daily visible emission notations of the asphalt plant baghouse stack exhaust.

- (b) To document compliance with Condition D.2.7, the Permittee shall maintain the following:
 - (1) Daily records of the following operational parameters during normal operation:
 - (A) Inlet and outlet differential static pressure; and
 - (B) Cleaning cycle: frequency and differential pressure
 - (2) Documentation of all response steps implemented, per event .
 - (3) Operation and preventive maintenance logs, including work purchases orders, shall be maintained.
 - (4) Quality Assurance/Quality Control (QA/QC) procedures.
 - (5) Operator standard operating procedures (SOP).
 - (6) Manufacturer's specifications or its equivalent.
 - (7) Equipment "troubleshooting" contingency plan.
- (c) To document compliance with Condition D.2.8, the Permittee shall maintain records of the results of the inspections required under Condition D.2.8 and the dates the vents are redirected.
- (d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

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

**PART 70 OPERATING PERMIT
CERTIFICATION**

Source Name: Corydon Crushed Stone
Source Address: 1100 Quarry Road, Corydon, IN 47112
Mailing Address: P.O. Box 577, Corydon, IN 47112-0577
Part 70 Permit No.: T061-7523-00006

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:

9 Annual Compliance Certification Letter

9 Test Result (specify) _____

9 Report (specify) _____

9 Notification (specify) _____

9 Other (specify) _____

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

Signature:

Printed Name:

Title/Position:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR MANAGEMENT
COMPLIANCE DATA SECTION
P.O. Box 6015
100 North Senate Avenue
Indianapolis, Indiana 46206-6015
Phone: 317-233-5674
Fax: 317-233-5967**

**PART 70 OPERATING PERMIT
EMERGENCY/DEVIATION OCCURRENCE REPORT**

Source Name: Corydon Crushed Stone
Source Address: 1100 Quarry Road, Corydon, IN 47112
Mailing Address: P.O. Box 577, Corydon, IN 47112-5-0577
Part 70 Permit No.: T061-7523-00006

This form consists of 2 pages

Page 1 of 2

Check either No. 1 or No.2
<input checked="" type="radio"/> 1. This is an emergency as defined in 326 IAC 2-7-1(12) C The Permittee must notify the Office of Air Management (OAM), within four (4) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and C The Permittee must submit notice in writing or by facsimile within two (2) days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16
<input checked="" type="radio"/> 2. This is a deviation, reportable per 326 IAC 2-7-5(3)(c) C The Permittee must submit notice in writing within ten (10) calendar days

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/Deviation:
Describe the cause of the Emergency/Deviation:

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

Page 2 of 2

Date/Time Emergency/Deviation started:
Date/Time Emergency/Deviation was corrected:
Was the facility being properly operated at the time of the emergency/deviation? 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/deviation:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by: _____
Title / Position: _____
Date: _____
Phone: _____

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

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

Source Name: Corydon Crushed Stone
Source Address: 1100 Quarry Road, Corydon, IN 47112
Mailing Address: P.O. Box 577, Corydon, IN 47112-0577
Part 70 Permit No.: T061-7523-00006

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

This report is an affirmation that the source has met all the compliance monitoring requirements stated in this permit. This report shall be submitted quarterly. Any deviation from the compliance monitoring requirements and the date(s) of each deviation must be reported. Additional pages may be attached if necessary. This form can be supplemented by attaching the Emergency/Deviation Occurrence Report. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

9 NO DEVIATIONS OCCURRED THIS REPORTING PERIOD

9 THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD.

Compliance Monitoring Requirement (e.g. Permit Condition D.1.3)	Number of Deviations	Date of each Deviation

Form Completed By: _____
Title/Position: _____
Date: _____
Phone: _____

Attach a signed certification to complete this report.

Indiana Department of Environmental Management Office of Air Management

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

Source Background and Description

Source Name: Corydon Crushed Stone
Source Location: 1100 Quarry Road, Corydon, IN 47112
County: Harrison
SIC Code: 3281
Operation Permit No.: T061-7523-00006
Permit Reviewer: Yvette de los Angeles/EVP

The Office of Air Management (OAM) has reviewed a Part 70 permit application from Corydon Crushed Stone relating to the operation of two (2) crushed stone plants and one (1) asphalt batch mix plant.

Permitted Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units and pollution control devices:

- (1) One (1) crushed stone plant, identified as EU-01A, constructed in 1958, with a maximum capacity of 450 tons per hour, equipped with the following:
 - (a) one (1) conveyor at a maximum capacity of 450 tons per hour,
 - (b) one (1) primary crusher at a maximum capacity of 450 tons per hour,
 - (c) one (1) secondary crusher at a maximum capacity of 324 tons per hour,
 - (d) one (1) tertiary crusher at a maximum capacity of 180 tons per hour,
 - (e) one (1) fines screen at a maximum capacity of 450 tons per hour,
 - (f) one (1) hopper at a maximum capacity of 450 tons per hour; and
 - (g) a water fogging system for dust control.
- (2) One (1) crushed stone plant, identified as EU-01B, constructed in 1994, with a maximum capacity of 200 tons per hour, equipped with the following:
 - (a) one (1) conveyor at a maximum capacity of 200 tons per hour,
 - (b) one (1) primary crusher at a maximum capacity of 130 tons per hour,
 - (c) one (1) secondary crusher at a maximum capacity of 138 tons per hour,
 - (d) one (1) tertiary crusher at a maximum capacity of 38 tons per hour,
 - (e) one (1) fines screen at a maximum capacity of 200 tons per hour,
 - (f) one (1) hopper at a maximum capacity of 200 tons per hour; and
 - (g) a water fogging system for dust control.
- (3) One (1) asphalt plant, identified as EU-02, constructed in 1990, equipped with one (1) batch mix dryer utilizing natural gas at a maximum rated capacity of 8 million British thermal units per hour (MMBtu/hr), with a maximum capacity of 250 tons per hour, using one (1) cyclone and one (1) baghouse in series for air pollution control, and exhausting to one (1) stack, identified as S1.

Unpermitted Emission Units and Pollution Control Equipment Requiring ENSR

There are no unpermitted facilities operating at this source during this review process.

New Emission Units and Pollution Control Equipment Requiring ENSR

There are no new facilities to be reviewed under the ENSR process.

Insignificant Activities

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

- (1) Natural gas-fired combustion sources with heat input equal to or less than ten (10) million Btu per hour:
 - (a) One (1) asphalt batch mix dryer with a maximum heat input rate of 8 MMBtu/hr, combusting natural gas.
 - (b) One (1) asphalt tank heater with a maximum heat input of 2 MMBtu/hr, combusting natural gas.
- (2) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.
- (3) Paved and unpaved roads and parking lots with public access.
- (4) Other activities or categories not previously identified:
 - (a) Diesel and asphalt storage tanks: VOC is less than 3 pounds per hour and 15 pounds per day.
 - (b) Storage piles and vehicular traffic: PM is less than 5 pounds per hour and 25 pounds per day.

Existing Approvals

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

- (1) OP 061-50008, issued on May 31, 1991; and
- (2) CP 061-5040-00006, issued on February 27, 1996.

All conditions from previous approvals were incorporated into this Part 70 permit.

Enforcement Issue

There are no enforcement actions pending.

Recommendation

The staff recommends to the Commissioner that the Part 70 permit 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 administratively complete Part 70 permit application for the purposes of this review was received on December 12, 1996.

A notice of completeness letter was mailed to the source on February 6, 1997.

Emission Calculations

See Appendix A of this document for detailed emissions calculations (6 pages).

Potential Emissions

Pursuant to 326 IAC 1-2-55, Potential Emissions are defined as “emissions of any one (1) pollutant which would be emitted from a facility, if that facility were operated without the use of pollution control equipment unless such control equipment is necessary for the facility to produce its normal product or is integral to the normal operation of the facility.”

Pollutant	Potential Emissions (tons/year)
PM	greater than 250
PM-10	greater than 250
SO ₂	less than 100
VOC	less than 100
CO	less than 100
NO _x	less than 100

Note: For the purpose of determining Title V applicability for particulates, PM-10, not PM, is the regulated pollutant in consideration.

HAP's	Potential Emissions (tons/year)
Acetaldehyde	less than 10
Benzene	less than 10
Ethyl Benzene	less than 10
Formaldehyde	less than 10
Quinone	less than 10
Toluene	less than 10
Xylene	less than 10
Total Polycyclic Organic Matter	less than 10
TOTAL HAP	less than 25

- (a) The potential emissions (as defined in 326 IAC 1-2-55) of PM and PM-10 are equal to or greater than 100 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.

Actual Emissions

The following table shows the actual emissions from the source. This information reflects the 1996 OAM emission data.

Pollutant	Actual Emissions (tons/year)
PM	280.425
PM-10	7.831
SO ₂	0.000
VOC	0.000

Pollutant	Actual Emissions (tons/year)
CO	0.000
NO _x	0.000
HAP	unknown

County Attainment Status

The source is located in Harrison County.

Pollutant	Status
PM-10	attainment
SO ₂	attainment
NO ₂	attainment
Ozone	attainment
CO	attainment
Lead	attainment

- (a) Volatile organic compounds (VOC) and oxides of nitrogen (NO_x) are precursors for the formation of ozone. Therefore, VOC and NO_x emissions are considered when evaluating the rule applicability relating to the ozone standards. Harrison County has been designated as attainment or unclassifiable for ozone.

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.

Federal Rule Applicability

- (a) The crushed stone plant, Unit ID # EU-01A, is not subject to the New Source Performance Standard, 326 IAC 12, (40 CFR 60.670-676, Subpart OOO). The crushed stone plant was constructed before August 31, 1983.
- (b) The crushed stone plant, Unit ID # EU-01B, is subject to the New Source Performance Standard, 326 IAC 12, (40 CFR 60.670-676, Subpart OOO). This rule limits the particulate matter emissions:
- (a) To 0.05 grams per dry standard cubic meter (g/dscm); and
- (b) Visible emissions to 7% opacity.

The source will comply with this rule by using a water fogging system to limit particulate matter emissions to 0.05 g/dscm (see Appendix A, page 6 for detailed calculations).

(c) The asphalt plant is subject to the New Source Performance Standard, 326 IAC 12, (40 CFR 60.90 - 60.93, Subpart I). This rule limits the particulate matter emissions:

- (1) To 0.04 grains per dry standard cubic foot (gr/dscf); and
- (2) Visible emissions to 20% opacity.

The source will comply with this rule by using a cyclone and a baghouse in series to limit particulate matter emissions to 0.04 gr/dscf (see Appendix A, page 6, for detailed calculations).

- (d) The diesel and asphalt storage tanks containing VOC less than 3 pounds per hour and 15 pounds per day are not subject to the New Source Performance Standard, 326 IAC 12, (40 CFR 60.4, Subpart Kb) because the storage tanks have a capacity of less than
- (e) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) applicable to this source.

State Rule Applicability - Entire Source

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

The source has submitted an Emergency Reduction Plan (ERP) on December 12, 1996. 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)

This source is subject to the requirements of 326 IAC 2-2. The actual PM emissions for 1996 is greater than 250 tons per year.

326 IAC 2-6 (Emission Reporting)

This source is subject to 326 IAC 2-6 (Emission Reporting), because it has the potential to emit more than one hundred (100) tons per year of PM and PM-10. Pursuant to this rule, the owner/operator of the source must annually submit an emission statement for the source. The annual statement must be received by July 1 of each year and contain the minimum requirement as specified in 326 IAC 2-6-4. The submittal should cover the period defined in 326 IAC 2-6-2(8)(Emission Statement Operating Year).

326 IAC 5-1 (Visible Emissions Limitations)

Pursuant to 326 IAC 5-1-2 (Visible Emissions Limitations), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), visible emissions shall meet the following, unless otherwise stated in this permit:

- (a) Visible emissions shall not exceed an average of forty percent (40%) opacity in twenty-four (24) consecutive readings as determined by 326 IAC 5-1-4,
- (b) Visible emissions shall not exceed sixty percent (60%) opacity for more than a cumulative total of fifteen (15) minutes (sixty (60) readings) in a six (6) hour period.

State Rule Applicability - Individual Facilities

326 IAC 6-3-2 (Process Operations)

The particulate matter (PM) from the one (1) crushed stone plant (EU-01A) shall be limited by the following:

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:

$$E = 55.0 P^{0.11} - 40$$

where E = rate of emission in pounds per hour and
P = process weight rate in tons per hour

For crushed stone plant #1 (EU-01A):

$$P = 450 \text{ tons per hour}$$
$$E = 55.0 (450)^{0.11} - 40 = 67.70 \text{ pounds per hour}$$

This operation is in compliance with 326 IAC 6-3-2 (see calculations, Appendix A, page 6 of 6).

The crushed stone plant (EU-01B) and the asphalt plant (EU-02) are not subject to this rule because they are subject to 326 IAC 12 (New Source Performance Standard).

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

This source is subject to 326 IAC 6-5 for fugitive particulate matter emissions. Pursuant to 326 IAC 6-5, for any new source which has not received all the necessary preconstruction approvals before December 13, 1985, a fugitive dust control plan must be submitted, reviewed and approved. The fugitive dust control plan for this source includes the following:

- (a) Fugitive particulate matter emissions from paved roads, unpaved roads, and parking lots shall be controlled by one or more of the following methods:

Paved roads and parking lots:

- (1) cleaning by vacuum sweeping on an as needed basis (monthly at a minimum);
- (2) power brooming while wet either from rain or application of water.

Unpaved roads and parking lots:

- (1) paving with asphalt;
- (2) treating with emulsified asphalt on an as needed basis;
- (3) treating with water on an as needed basis;
- (4) double chip and seal the road surface and maintained on an as needed basis.

- (b) Fugitive particulate matter emissions from aggregate stockpiles shall be controlled by one or more of the following methods on an as needed basis:

- (1) maintaining minimum size and number of stock piles of aggregate;
- (2) treating around the stockpile area with emulsified asphalt;
- (3) treating around the stockpile area with water;
- (4) treating the stockpiles with water.

- (c) Fugitive particulate matter emissions from outdoor conveying of aggregates shall be controlled by the following method on an as needed basis:

- (1) applying water at the feed and the intermediate points.

- (d) Fugitive particulate matter emissions from the transfer of aggregates shall be controlled by one of the following methods:

- (1) minimize the vehicular distance between transfer points;
- (2) enclose the transfer points;
- (3) apply water on transfer points on an as needed basis.

- (e) Fugitive particulate matter emissions from transportation of aggregate by truck, front end loader, etc. shall be controlled by one of the following methods:
 - (1) tarping the aggregate hauling vehicles;
 - (2) maintain vehicle bodies in a condition to prevent leakage;
 - (3) spray the aggregates with water;
 - (4) maintain a 10 MPH speed limit in the yard.

- (f) Fugitive particulate matter emissions from the loading and unloading of aggregate shall be controlled by one of the following methods:
 - (1) reduce free fall distance to a minimum;
 - (2) reduce the rate of discharge of the aggregate;
 - (3) spray the aggregate with water on an as needed basis.

326 IAC 8-5-2 (Miscellaneous Operations: Asphalt Paving)

This source is not subject to 326 IAC 8-5-2 (Miscellaneous Operations: Asphalt Paving) because this source does not use cutback asphalt or asphalt emulsion.

Compliance Requirements

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

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

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

1. The crushed stone plants have applicable compliance monitoring conditions as specified below:

- (a) Daily visible emissions notations of the crushed stone plants shall be performed during normal daylight operations. A trained employee will record whether emissions are normal or abnormal. 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. 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. 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. The Compliance Response Plan for this unit shall contain troubleshooting contingency and responsive steps for when an abnormal emission is observed.
2. The asphalt plant has applicable compliance monitoring conditions as specified below:
- (a) Daily visible emissions notations of the asphalt plant shall be performed during normal daylight operations. A trained employee will record whether emissions are normal or abnormal. 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. 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. 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. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.
 - (b) The Permittee shall record the total static pressure drop across the baghouse controlling the asphalt plant, at least once weekly when the asphalt plant is in operation. Unless operated under conditions for which the Preventive Maintenance Plan specifies otherwise, the pressure drop across the baghouse shall be maintained within the range of 5.0 to 8.0 inches of water or a range established during the latest stack test. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above mentioned range for any one reading.

These monitoring conditions are necessary because the baghouse for drying, screening, storage and mixing process must operate properly to ensure compliance with 326 IAC 6-3 (Process Operations) and 326 IAC 2-7 (Part 70).

Air Toxic Emissions

Indiana presently requests applicants to provide information on emissions of the 187 hazardous air pollutants (HAPs) set out in the Clean Air Act Amendments of 1990. These pollutants are either carcinogenic or otherwise considered toxic and are commonly used by industries. They are listed as air toxics on the Office of Air Management (OAM) Part 70 Application Form GSD-08.

- (a) This source will emit levels of air toxics less than those that constitute major source applicability according to Section 112 of the 1990 Clean Air Act Amendments.
- (b) See attached calculations for detailed air toxic calculations.

Conclusion

The operation of this asphalt plant shall be subject to the conditions of the attached proposed **Part 70 Permit No. T061-7523-00006.**

Indiana Department of Environmental Management Office of Air Management

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

Source Background and Description

Source Name:	Corydon Crushed Stone, Inc.
Source Location:	1100 Quarry Road, Corydon, IN 47112
County:	Harrison
SIC Code:	3281
Operation Permit No.:	T061-7523-00006
Permit Reviewer:	Yvette de los Angeles/EVP

On September 2, 1998, the Office of Air Management (OAM) had a notice published in the Corydon Democrat, Corydon, Indiana, stating that Corydon Crushed Stone, Inc. had applied for a Part 70 Operating Permit for the operation of two (2) crushed stone plants and one (1) asphalt batch mix plant. The notice also stated that OAM proposed to issue a permit for this installation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

Upon further review, the OAM has decided to make the following changes to the Part 70 Operating Permit and Technical Support Document (changes in bold or strikeout for emphasis):

Comment 1

Condition D.1.1 is written with the NSPS limits of 40 CFR 60.672 (a) included. While these limits are 0.05 g/dscm, it states in the last sentence in paragraph "a" that these limitations are for conveyors or other affected facilities that have stack emissions. This means baghouses controlling these emission points which exhaust to a stack. The water fogging system for dust control is not a control system which falls under this category. For this plant, the limits are in (b) and (c). This is 10 % fugitive opacity for transfer points and 15% fugitive opacity for crushers. Paragraph (a) is not applicable to this source.

Condition D.1.1 (b) is incorrect. For plants constructed before the NSPS applicability date for OOO, the opacity standards or SIP rules are the rules that apply. The emission points at most plants like these are fugitive since there is no control equipment such as a baghouse.

Response 1

- (a) Condition D.1.1 (a) and (b) has been removed and Condition D.1.2 (now Condition D.1.1) has been revised accordingly in the Part 70 Permit:

~~D.1.1 Particulate Matter (PM)~~

- ~~(a) Pursuant to 326 IAC 12, (40 CFR 60.670-676, Subpart OOO) "Standard of Performance for Nonmetallic Mineral Processing Plant", the particulate matter emission from crushed stone plant (EU-01B) shall be limited to 0.05 grams per dry standard cubic meters (g/dscm). This is equivalent to a particulate matter emission rate of 9.9 pounds per hour.~~

~~(b) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations), the particulate matter emissions from crushed stone plant (EU-01A) shall not exceed the 67.70 pounds per hour, established as E in the following formula:~~

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

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

~~For crushed stone plant #1 (EU-01A):~~

~~P = 450 tons per hour~~

~~E = 55.0 (450)^{0.11} - 40 = 67.70 pounds per hour~~

D.1.1 Opacity

Pursuant to 326 IAC 12, (40 CFR Part 60.670-676, Subpart OOO) "Standard of Performance for Nonmetallic Mineral Processing Plant", the crushed stone plant (EU-01B) shall not discharge or cause the discharge into the atmosphere from any transfer point on belt conveyors or from any other affected facility any fugitive emissions which exhibit greater than 10 % opacity, and any crusher at which a capture system is not used, fugitive emissions which exhibit greater than 15 % opacity.

(i) The "Federal Rule Applicability", page 4 of 8, in the TSD should read as follows:

Federal Rule Applicability

(b) The crushed stone plant, Unit ID # EU-01B, is subject to the New Source Performance Standard, 326 IAC 12, (40 CFR 60.670-676, Subpart OOO). **The crushed stone plant (EU-01B) shall not discharge or cause the discharge into the atmosphere from any transfer point on belt conveyors or from any other affected facility any fugitive emissions which exhibit greater than 10 % opacity, and any crusher at which a capture system is not used, fugitive emissions which exhibit greater than 15 % opacity.**

~~This rule limits the particulate matter emissions:~~

~~(a) To 0.05 grams per dry standard cubic meter (g/dscm); and~~

~~(b) Visible emissions to 7% opacity.~~

~~The source will comply with this rule by using a water fogging system to limit particulate matter emissions to 0.05 g/dscm (see Appendix A, page 6 for detailed calculations).~~

(c) The "State Rule Applicability - Individual Facilities", 326 IAC 6-3-2 (Process Operations) on page 5 of 8 of the TSD shall be removed.

Comment 2

Condition D.2.4 states that testing on the asphalt plant is not required. This needs to be changed because testing is required, based on 326 IAC 12 (40 CFR 60.90 Subpart I). Testing is required once during the life of the Title V permit. This testing would be for PM emissions and opacity.

Response 2

Condition D.2.4 has been revised accordingly:

D.2.4 Testing Requirements [326 IAC 2-7-6(1),(6)]

Pursuant to 326 IAC 12, (40 CFR Part 60.90, Subpart I) “Standards of Performance for Hot Mix Asphalt Facilities”, during the period between 30 and 36 months after issuance of this permit, the Permittee shall perform PM and opacity testing for the asphalt plant utilizing Method 5 for PM and Method 9 for opacity (40 CFR 60, Appendix A), or other methods as approved by the Commissioner. This test shall be performed once during the life of the permit from the date of this valid compliance demonstration. In addition to these requirements, IDEM may require compliance testing when necessary to determine if the facility is in compliance.

Comment 3

Condition C.22 (a) requires a Quarterly Compliance Monitoring Report. The report form on page 37 of 37 is defined as a semi-annual compliance monitoring report. Please change semi-annual to quarterly.

Response 3

Semi-Annual Compliance Monitoring Report, page 37 of 37, has been changed to Quarterly Compliance Monitoring Report as follows:

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

**PART 70 OPERATING PERMIT
~~SEMI-ANNUAL~~ QUARTERLY COMPLIANCE MONITORING REPORT**

Source Name: Corydon Crushed Stone
Source Address: 1100 Quarry Road, Corydon, IN 47112
Mailing Address: P.O. Box 577, Corydon, IN 47112-0577
Part 70 Permit No.: T061-7523-00006

Months: _____ to _____ Year: _____

This report is an affirmation that the source has met all the compliance monitoring requirements stated in this permit. This report shall be submitted quarterly. Any deviation from the compliance monitoring requirements and the date(s) of each deviation must be reported. Additional pages may be attached if necessary. This form can be supplemented by attaching the Emergency/Deviation Occurrence Report. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

NO DEVIATIONS OCCURRED THIS REPORTING PERIOD

THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD.

Compliance Monitoring Requirement (e.g. Permit Condition D.1.3)	Number of Deviations	Date of each Deviation

Form Completed By: _____
Title/Position: _____
Date: _____
Phone: _____

Attach a signed certification to complete this report.

Comment 4

Condition D.1.5 (a) requires “Daily visible emissions notations of...associated components...” Please add the word exhaust to be consistent with Condition D.1.6. Also, this condition uses the phrase “when exhausting to the atmosphere.” Emissions from the limestone crushing facilities will always be exhausting to the atmosphere and will not be redirected to a plant interior. Please change to “when the facilities are in operation.”

Response 4

Condition D.1.4 (formerly Condition D.1.5) has been changed accordingly:

D.1.4 Visible Emissions Notations

- (a) Daily visible emission notations of the crushed stone plants system ductworks and associated components **exhaust** for evidence of holes or erosions shall be performed during normal daylight operations ~~when exhausting to the atmosphere~~ **when facilities are in operation**. A trained employee shall record whether emissions are normal or abnormal.

Comment 5

Condition D.2.7 is requiring the recording of pressure drop readings every hour. This seems excessive for monitoring. Monitoring should occur once per shift when the asphalt plant is in operation. Additionally, the wording “when venting to the atmosphere”, is used. The asphalt plant will not be venting into a plant interior at anytime. This can be removed.

Response 5

Condition D.2.7 has been revised accordingly:

D.2.7 Parametric Monitoring

The Permittee shall record the total static pressure drop across the baghouse used in conjunction with the asphalt plant, at least once ~~hourly per shift~~ **hourly per shift** when the asphalt plant is in operation. ~~when venting to the atmosphere~~. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across the baghouse shall be maintained within the range of 5.0 and 8.0 inches of water or a range established during the latest stack test. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above mentioned range for any one reading.

“When Venting to the atmosphere” in Conditions D.2.5, 2.6, 2.8, and 2.10, shall be removed.

Comment 6

Condition D.2.8 refers to woodworking operations. There is no woodworking operations at this source. Also, the redirecting of vents to the interior of a plant is not applicable to this source.

Response 6

Condition D.2.8 has been revised accordingly:

D.2.8 Baghouse Inspections

An inspection shall be performed each calendar quarter of all bags controlling the ~~woodworking operation asphalt plant when venting to the atmosphere.~~ A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. ~~Inspections are optional when venting to the indoors.~~ All defective bags shall be replaced.

Comment 7

Under Condition D.2.10, there are two subpart (b). Please change accordingly. Also, D.2.10 (b) (1) and (8) and (c) refer to the redirecting of vents to the interior of a plant which is not applicable for this source.

Response 7

Condition D.2.10 has been revised accordingly:

D.2.10 Record Keeping Requirements

- (a) To document compliance with Condition D.2.6, the Permittee shall maintain records of daily visible emission notations of the asphalt plant baghouse stack exhaust.
- (b) To document compliance with Condition D.2.7, the Permittee shall maintain the following:
 - (1) Daily records of the following operational parameters during normal operation ~~when venting to the atmosphere.~~
 - (A) Inlet and outlet differential static pressure; and
 - (B) Cleaning cycle: frequency and differential pressure
 - (2) Documentation of all response steps implemented, per event .
 - (3) Operation and preventive maintenance logs, including work purchases orders, shall be maintained.
 - (4) Quality Assurance/Quality Control (QA/QC) procedures.
 - (5) Operator standard operating procedures (SOP).
 - (6) Manufacturer's specifications or its equivalent.
 - (7) Equipment "troubleshooting" contingency plan.
 - ~~(8) Documentation of the dates vents are redirected.~~
- ~~(b)~~ (c) To document compliance with Condition D.2.8, the Permittee shall maintain records of the results of the inspections required under Condition ~~D.2.6~~ **D.2.8** and the dates the vents are redirected.
- ~~(c)~~ (d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

Comment 8

OAM has decided to revise the Broken Bag or Failure Detection (Condition D.2.9) as follows:

D.2.9 Broken or Failed Bag or Failure Detection

In the event that bag failure has been observed.

- (a) The affected compartments will be shut down immediately until the failed units have been repaired or replaced. ~~For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced.~~ **Within eight (8) hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) hours of discovery of the failure and shall include a timetable for completion. 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) ~~Within eight (8) hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) hours of discovery of the failure and shall include a timetable for completion.~~ **For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).**

Response 8

Condition D.2.9 has been revised accordingly.

Comment 9

- (a) Condition C.2 has been revised to reflect current rule language. The condition has been changed to:

C.2 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (~~Visible Emissions~~ **Opacity** Limitations), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), ~~visible emissions~~ **opacity** shall meet the following, unless otherwise stated in this permit:

- (a) ~~Visible emissions~~ **Opacity** shall not exceed an average of forty percent (40%) ~~opacity~~ in ~~twenty four (24) consecutive readings,~~ **any one (1) six (6) minute averaging period** as determined in 326 IAC 5-1-4.
- (b) ~~Visible emissions~~ **Opacity** shall not exceed sixty percent (60%) ~~opacity~~ 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.

(b) Page 7 of 9, of the Technical Support Document, should read as follows:

326 IAC 5-1 (~~Visible Emissions~~ **Opacity** Limitations)

Pursuant to 326 IAC 5-1-2 (~~Visible Emissions~~ **Opacity** Limitations), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), ~~visible emissions opacity~~ shall meet the following, unless otherwise stated in this permit:

- (a) ~~Visible emissions Opacity~~ shall not exceed an average of forty percent (40%) ~~opacity~~ in ~~twenty four (24) consecutive readings~~, **any one (1) six (6) minute averaging period** as determined in 326 IAC 5-1-4.
- (b) ~~Visible emissions Opacity~~ shall not exceed sixty percent (60%) ~~opacity~~ 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.

Response 9

Condition C.2 has been changed and the TSD has been revised accordingly.

On September 18, 1998, Robert D. Waugaman submitted comments on the proposed Part 70 permit, on behalf of Corydon Crushed Stone. The summary of the comments and corresponding responses are as follows:

Comment 1

Condition A.1 should have one change made to the first sentence as indicated by the following:

“The Permittee owns and operates a stone quarry that includes two (2) stationary crushed stone plants and one (1) stationary asphalt batch mix plant.”

Response 1

(a) Condition A.1 has been revised accordingly:

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

The Permittee owns and operates ~~an asphalt plant~~ a stone quarry that ~~manufactures~~ includes two (2) stationary crushed stone plants and one (1) stationary asphalt batch mix plant.

(b) The “Conclusion” on page 8 of 8 of the Technical Support Document should read as follows:

Conclusion

The operation of this ~~asphalt plant~~ stone quarry shall be subject to the conditions of the attached proposed **Part 70 Permit No. T061-7523-00006**.

Comment 2

Condition B.27, Credible Evidence, states in part that “other credible evidence may be used to demonstrate compliance or non compliance.” In other conditions, the permit states specific methods that may be used to determine compliance or non compliance with applicable requirements of the permit. To allow for use of “other credible evidence” is vague and subject to interpretation as to meaning. Corydon requests that this condition be removed in its entirety.

Response 2

IDEM now believes that this condition is not necessary and has removed it from the permit. The issues regarding credible evidence can be adequately addressed during a showing of compliance or noncompliance. Indiana’s statutes, and the rules adopted under their authority, govern the admissibility of evidence in any proceeding. Indiana law contains no provisions that limit the use of any credible evidence and an explicit statement is not required in the permit.

~~B.27 Credible Evidence [326 IAC 2-7-5(3)] [62 Federal Register 8313] [326 IAC 2-7-6]~~

~~Notwithstanding the conditions of this permit that state specific methods that may be used to assess compliance or noncompliance with applicable requirements, other credible evidence may be used to demonstrate compliance or non compliance.~~

Comment 3

Condition 2.9 (a) requires that the operation be shut down immediately in the event of a bag failure. Condition 2.9 (b) requires steps within eight (8) hours of determination of failure. Condition B.13, Emergency Provisions, allows for some latitude in continuing an operation during an emergency, provided that certain conditions are met. Corydon requests that Condition D.2.9 be reworded to reference the allowances provided for in Condition B.13.

Response 3

Pursuant to 326 IAC 2-7-5(1)(F), each Part 70 permit is required to contain conditions which minimize excess emissions, to the extent feasible, caused by events such as a bag failure. The requirements shall take into consideration available technologies, safety cost, and other relevant factors. The OAM does not consider shutting down the baghouse and associated production equipment to be infeasible in this case. Many sources which vent their baghouse exhaust in the buildings during winter months will shutdown production during such bag failures.

A bag failure could be construed as an "emergency" as defined in condition B. 13 for purposes of an affirmative defense against a violation of the specific permit condition. However, once the bag failure is observed, continuing to operate the equipment and venting uncontrolled particulate matter to the atmosphere may not be considered an attempt by the permittee to take all reasonable steps to minimize levels of emissions that exceed an emission standard or other requirement in the permit.

Therefore, the OAM believes that the requirement to shutdown the affected compartments is a reasonable action to ensure compliance with the particulate matter limitations. The condition has been changed as written in IDEM Comment 8.

Comment 4

Under "Federal Rule Applicability," item (d) on page 5 of 8 in the Technical Support Document, should be corrected to include the capacity threshold at the end of the sentence.

Response 4

The "Federal Rule Applicability" page 5 of 8, should read as follows:

Federal Rule Applicability

- (d) The diesel and asphalt storage tanks containing VOC less than 3 pounds per hour and 15 pounds per day are not subject to the New Source Performance Standard, 326 IAC 12, (40 CFR 60.4, Subpart Kb) because the storage tanks have a capacity of less than **applicable requirements**.

**Appendix A: Emission Calculations
for Asphalt Plant (EU-02)**

Operation Permit No.- T061-7523 Plant I D 061-00006

Company Name: Corydon Crushed Stone
 Plant Location: 1100 Quarry Road, Corydon, IN 47112
 County: Harrison
 Date: July 31, 1998

**Appendix A: Emission Calculations
for Asphalt Plant (EU-02)**

Operation Permit No.- T061-7523 Plant I D 061-00006

Company Name: Corydon Crushed Stone
 Plant Location: 1100 Quarry Road, Corydon, IN 47112
 County: Harrison
 Date: July 31, 1998
 Permit Reviewer: Yvette de los Angeles

**** aggregate dryer burner****

The following calculations determine the amount of emissions created by natural gas combustion, from the aggregate dryer burner, based on 8,760 hours of operation and US EPA's AP-42, 5th Edition, Section 1.4 - Natural Gas Combustion, Tables 1.4-1 and 1.4-2.

Criteria Pollutant: $\frac{8 \text{ MMBtu/hr} * 8,760 \text{ hr/yr}}{1000 \text{ Btu/cf} * 2,000 \text{ lb/ton}} * \text{Ef (lb/MMcf)} = (\text{ton/yr})$

PM:	7.6 lb/MMcf =	0.27 ton/yr
PM-10:	7.6 lb/MMcf =	0.27 ton/yr
SO2:	0.6 lb/MMcf =	0.02 ton/yr
NOx:	100.0 lb/MMcf =	3.50 ton/yr
VOC:	5.5 lb/MMcf =	0.19 ton/yr
CO:	84.0 lb/MMcf =	2.94 ton/yr

**** aggregate drying: batch-mix plant ****

The following calculations determine the amount of worst case emissions created by aggregate drying before controls, based on 8,760 hours of use and USEPA's AP-42, 5th Edition, Section 11.1 - Hot Mix Asphalt Plants, Tables 11.1-2 and 11.1-9 for a batch mix dryer which has the capability of combusting natural gas.

Pollutant: $\frac{\text{Ef lb/ton} * 250 \text{ ton/hr} * 8,760 \text{ hr/yr}}{2,000 \text{ lb/ton}}$

Criteria Pollutant:

PM:	32 lb/ton =	35,040.00 ton/yr
PM-10:	4.5 lb/ton =	4,927.50 ton/yr
VOC:	0.0116 lb/ton =	12.75 ton/yr

The VOC emission factor represents the sum of the HAP emission factors from the dryer which were assumed to be VOC.

**** conveying / handling ****

The following calculations determine the amount of emissions created by wet (>1.5% moisture) material handling, based on 8,760 hours of use and AP-42, Section 11.19.2, Table 11.19.2-2. Emission factors for process operations are as follows:

PM-10 Emissions Per Operation:

$\frac{250 \text{ ton/hr} * 8,760 \text{ hrs/yr} * \text{Ef (lb/ton of material)}}{2,000 \text{ lb/ton}} * \text{Number of Similar Operations} = (\text{ton/yr})$

Operation			
Truck Loading:	1 operation(s) x	1.0E-04 lb/ton of material =	0.11 ton/yr
Conveyor Transfers:	2 operation(s) x	4.8E-05 lb/ton of material =	0.11 ton/yr
Screening:	1 operation(s) x	8.4E-04 lb/ton of material =	0.92 ton/yr
Batch Drops:	1 operation(s) x	1.0E-04 lb/ton of material =	0.11 ton/yr

Total PM 10 Emissions: 1.24 ton/yr
Total PM Emissions: 2.61 ton/yr

Total PM Emissions (tons/yr) = 2.1 * Total PM-10 Emissions (tons/yr) based on US EPA's AP-42, 5th Edition, Section 11.19.2, Table 11.19.2-2, footnote c.

Company Name: Corydon Crushed Stone
 Plant Location: 1100 Quarry Road, Corydon, IN 47112
 County: Harrison
 Date: July 31, 1998

**** unpaved roads ****

The following calculations determine the amount of emissions created by vehicle traffic on unpaved roads, based on 8,760 hours of use and AP-42, Ch 13.2.1.

Dump Truck

4.7 trip/hr x
 0.25 mile/trip x
 1 (round trip) x
 8,760 hr/yr = 10293 miles per year

$$E_f = k \cdot 5.9 \cdot (s/12)^2 \cdot (S/30) \cdot (W/3)^{0.7} \cdot (w/4)^{0.5} \cdot ((365-p)/365)$$

$$= 1.69 \text{ lb/mile}$$

where k = 0.8 size multiplier
 s = 5.0 % silt content of unpaved roads
 p = 125 days of rain greater than or equal to 0.01 inches
 S = 5 miles/hr vehicle speed
 W = 26 tons average vehicle weight
 w = 12 wheels

$$\frac{1.69 \text{ lb/mi} \times 10293 \text{ mi/yr}}{2000 \text{ lb/ton}} = 8.71 \text{ tons/yr}$$

P M-10: 35% of PM = 3.05 tons/yr

Total PM Emissions From Unpaved Roads = 8.71 tons/yr

Total PM-10 Emissions From Unpaved Roads = 3.05 tons/yr

**** storage ****

The following calculations determine the amount of emissions created by wind erosion of storage stockpiles, based on 8,760 hours of use and USEPA's AP-42 (Pre 1983 Edition), Section 11.2.3.

Material	Silt Content (wt %)	Pile Size (acres)	Storage Capacity (tons)	P M Emissions tons/yr	P M-10 Emissions tons/yr
Crushed Stone	0.5	3.00	NA	0.32	0.11
Total				0.32	0.11

Sample Calculation:

$$E_f = 1.7 \cdot (s/1.5) \cdot (365-p)/235 \cdot (f/15)$$

$$= 0.58 \text{ lb/acre/day}$$

where s = 0.5 % silt
 p = 125 days of rain greater than or equal to 0.01 inches
 f = 15 % of wind greater than or equal to 12 mph

$$E_p (\text{storage}) = \frac{E_f \cdot (365 \text{ day/yr}) \cdot (\text{pile size in acres})}{(2,000 \text{ lb/ton})}$$

PM = 0.32 tons/yr P M-10: 35% of PM = 0.11 tons/yr

**** summary of source emissions before controls ****

Criteria Pollutants:

P M: 35,051.64 ton/yr
P M-10: 4,931.90 ton/yr
S O 2: 0.02 ton/yr
N O x: 3.50 ton/yr
V O C: 12.95 ton/yr (VOCs include HAPs from aggregate drying operation)
C O: 2.94 ton/yr

Company Name: Corydon Crushed Stone
 Plant Location: 1100 Quarry Road, Corydon, IN 47112
 County: Harrison
 Date: July 31, 1998

**** source emissions after controls ****

aggregate drying:			
P M:	35,040.00 ton/yr x	0.2% emitted after controls =	70.08 ton/yr
P M-10:	4,927.50 ton/yr x	0.2% emitted after controls =	9.85 ton/yr
bin loading & conveying:			
P M:	0.45 ton/yr x	50% emitted after controls =	0.23 ton/yr
P M-10:	0.21 ton/yr x	50% emitted after controls =	0.11 ton/yr
screening & batch drops:			
P M:	2.16 ton/yr x	0.2% emitted after controls =	0.00 ton/yr
P M-10:	1.03 ton/yr x	0.2% emitted after controls =	0.00 ton/yr
unpaved roads:			
P M:	8.71 ton/yr x	50% emitted after controls =	4.36 ton/yr
P M-10:	3.05 ton/yr x	50% emitted after controls =	1.52 ton/yr
storage piles:			
P M:	0.32 ton/yr x	0.2% emitted after controls =	0.00 ton/yr
P M-10:	0.11 ton/yr x	0.2% emitted after controls =	0.00 ton/yr

**** summary of source emissions after controls ****

Criteria Pollutant:

P M:	74.67 tons/yr
P M-10:	11.49 tons/yr
S O 2:	0.02 tons/yr
N O x:	3.50 tons/yr
V O C:	12.95 tons/yr
C O:	2.94 tons/yr

Hazardous Air Pollutants (HAPs)

**** aggregate drying: batch-mix plant ****

The following calculations determine the amount of HAP emissions created by aggregate drying before & after controls, based on 8,760 hours of use and USEPA's AP-42, 5th Edition, Section 11.1 - Hot Mix Asphalt Plants, Table 11.1-9 for a batch mix dryer which can be fired with natural gas.

Pollutant:	Ef	lb/ton x	250	ton/hr x	8760 hr/yr
			2000	lb/ton	

Hazardous Air Pollutants (HAPs):		Potential To Emit	Limited Emissions
Acetaldehyde:	6.40E-04 lb/ton =	0.70 ton/yr	0.70 ton/yr
Benzene:	3.50E-04 lb/ton =	0.38 ton/yr	0.38 ton/yr
Ethyl Benzene:	3.30E-03 lb/ton =	3.61 ton/yr	3.61 ton/yr
Formaldehyde:	8.60E-04 lb/ton =	0.94 ton/yr	0.94 ton/yr
Quinone:	2.70E-04 lb/ton =	0.30 ton/yr	0.30 ton/yr
Toluene:	1.80E-03 lb/ton =	1.97 ton/yr	1.97 ton/yr
Xylene:	4.30E-03 lb/ton =	4.71 ton/yr	4.71 ton/yr
**Total Polycyclic Organic Matter (POM):	1.271E-04 lb/ton =	0.14 ton/yr	0.14 ton/yr
	Total HAPs =	12.75 ton/yr	12.75 ton/yr

** total POM includes 2-Methylnaphthalene, Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Chrysene, Fluoranthene, Fluorene, Naphthalene, Phenanthrene, and Pyrene.

Company Name: Corydon Crushed Stone
 Plant Location: 1100 Quarry Road, Corydon, IN 47112
 County: Harrison
 Date: July 31, 1998

**** miscellaneous ****

40 CFR Part 60.90, Subpart I (Standards of Performance for Hot Mix Asphalt Plants) Compliance Calculations:

The following calculations determine compliance with NSPS, which limits stack emissions from asphalt plants to 0.04 gr/dscf:

$$\frac{74.67 \text{ ton/yr} *}{525,600 \text{ min/yr} *} \frac{2000 \text{ lb/ton} *}{52,800 \text{ dscf/min}} 7000 \text{ gr/lb} = 0.038 \text{ gr/dscf} \quad (\text{will comply})$$

Note:

$$\begin{aligned} \text{SCFM} &= 75,000 \text{ acfm} * (460 + 68) / (460 + 290) \\ &= 52,800 \text{ scfm} \end{aligned}$$

40 CFR Part 60.670, Subpart OOO (Standards of Performance for Nonmetallic Mineral Processing Plants) Compliance Calculations

The following calculations determine compliance with NSPS, which limits emissions from crushed stone plant (EU-01B) to 0.05 g/dscm:

$$\frac{32.02 \text{ ton/yr} *}{525,600 \text{ min/yr} *} \frac{2000 \text{ lb/ton} *}{52,800 \text{ dscf/min}} 7000 \text{ gr/lb} = 0.0162 \text{ gr/dscf} = 0.0370 \text{ g/dscm} \quad (\text{will comply})$$

Note:

$$\begin{aligned} \text{SCFM} &= 75,000 \text{ acfm} * (460 + 68) / (460 + 290) \\ &= 52,800 \text{ scfm} \end{aligned}$$

$$1 \text{ g/dscm} = 0.4370 \text{ gr/dscfm}$$

Appendix A: Emission Calculations for Crushed Stone Plant #1 (EU-01A)

Company Name: Corydon Crushed Stone
 Plant Location: 1100 Quarry Road, Corydon, IN 47112
 County: Harrison
 Date: July 31, 1998
 Permit Reviewer: Yvette de los Angeles

**** emissions before controls ****

Storage	** see below **				2.35 tons/yr	AP-42 Ch.11.2.3
Transporting	** see page 4 - Unpaved Road **				10.09 tons/yr	AP-42 Ch.11.2.1
Loading & Unloading	450 ton/hr x	0.0017 lb/ton	/ 2000 lb/ton x	8760 hr/yr =	3.35 tons/yr	AP-42 Ch.11.2.3
Crushing (primary)	450 ton/hr x	0.00504 lb/ton	/ 2000 lb/ton x	8760 hr/yr =	9.93 tons/yr	AP-42 Ch.11.19.2
Crushing (secondary)	324 ton/hr x	0.00504 lb/ton	/ 2000 lb/ton x	8760 hr/yr =	7.15 tons/yr	AP-42 Ch.11.19.2
Crushing (tertiary)	180 ton/hr x	0.00504 lb/ton	/ 2000 lb/ton x	8760 hr/yr =	3.97 tons/yr	AP-42 Ch.11.19.2
Screening	450 ton/hr x	0.0315 lb/ton	/ 2000 lb/ton x	8760 hr/yr =	62.09 tons/yr	AP-42 Ch.11.19.2
Conveyor Transfer	450 ton/hr x	0.00294 lb/ton	/ 2000 lb/ton x	8760 hr/yr =	5.79 tons/yr	AP-42 Ch.11.19.2
Total emissions before controls:					104.73 tons/yr	

**** emissions after controls ****

Storage	2.35 tons/yr x	50% emitted after controls =	1.17 tons/yr
Transporting	10.09 tons/yr x	50% emitted after controls =	5.05 tons/yr
Loading & Unloading	3.35 tons/yr x	50% emitted after controls =	1.68 tons/yr
Crushing (primary)	9.93 tons/yr x	50% emitted after controls =	4.97 tons/yr
Crushing (secondary)	7.15 tons/yr x	50% emitted after controls =	3.58 tons/yr
Crushing (tertiary)	3.97 tons/yr x	50% emitted after controls =	1.99 tons/yr
Screening	62.09 tons/yr x	50% emitted after controls =	31.04 tons/yr
Conveying	5.79 tons/yr x	50% emitted after controls =	2.90 tons/yr
Total emissions after controls:			52.36 tons/yr

**** storage ****

Storage emissions, which result from wind erosion, are determined by the following calculations:

$$E_f = 1.7 \cdot (s/1.5) \cdot (365-p) / 235 \cdot (f/15)$$

$$= 1.85 \text{ lb/acre/day}$$

where s = 1.6 % silt content of material
 p = 125 days of rain greater than or equal to 0.01 inches
 f = 15 % of wind greater than or equal to 12 mph

$$E_p (\text{storage}) = E_f \cdot sc \cdot (40 \text{ cuft/ton}) / (2000 \text{ lb/ton}) / (43560 \text{ sqft/acre}) / (25 \text{ ft}) \cdot (365 \text{ day/yr})$$

$$= 2.35 \text{ tons/yr}$$

where sc = 189,000 tons storage capacity

Appendix A: Emission Calculations for Crushed Stone Plant #2 (EU-01B)

Company Name: Corydon Crushed Stone
 Plant Location: 1100 Quarry Road, Corydon, IN 47112
 County: Harrison
 Date: July 31, 1998
 Permit Reviewer: Yvette de los Angeles

**** aggregate handling ****

Storage		** see below **			2.35 tons/yr	AP-42 Ch.11.2.3
Transporting		** see page 4 - Unpaved Road **			10.09 tons/yr	AP-42 Ch.11.2.1
Loading & Unloading	200 ton/hr x	0.0017 lb/ton	/ 2000 lb/ton x	8760 hr/yr =	1.50 tons/yr	AP-42 Ch.11.2.3
Crushing (primary)	130 ton/hr x	0.00504 lb/ton	/ 2000 lb/ton x	8760 hr/yr =	2.87 tons/yr	AP-42 Ch.11.19.2
Crushing (secondary)	138 ton/hr x	0.00504 lb/ton	/ 2000 lb/ton x	8760 hr/yr =	3.05 tons/yr	AP-42 Ch.11.19.2
Crushing (tertiary)	38 ton/hr x	0.00504 lb/ton	/ 2000 lb/ton x	8760 hr/yr =	0.84 tons/yr	AP-42 Ch.11.19.2
Screening	200 ton/hr x	0.0315 lb/ton	/ 2000 lb/ton x	8760 hr/yr =	27.59 tons/yr	AP-42 Ch.11.19.2
Conveyor Transfer	200 ton/hr x	0.00294 lb/ton	/ 2000 lb/ton x	8760 hr/yr =	2.58 tons/yr	AP-42 Ch.11.19.2
Total emissions before controls:					50.86 tons/yr	

**** emissions after controls ****

Storage	2.35 tons/yr x	50% emitted after controls =	1.17 tons/yr
Transporting	10.09 tons/yr x	50% emitted after controls =	5.05 tons/yr
Loading & Unloading	1.50 tons/yr x	50% emitted after controls =	0.75 tons/yr
Crushing (primary)	2.87 tons/yr x	50% emitted after controls =	1.43 tons/yr
Crushing (secondary)	3.05 tons/yr x	50% emitted after controls =	1.52 tons/yr
Crushing (tertiary)	0.84 tons/yr x	50% emitted after controls =	0.42 tons/yr
Screening	27.59 tons/yr x	50% emitted after controls =	13.80 tons/yr
Conveying	2.58 tons/yr x	50% emitted after controls =	1.29 tons/yr
Total emissions after controls:			25.43 tons/yr

**** storage ****

Storage emissions, which result from wind erosion, are determined by the following calculations:

$$E_f = 1.7 * (s/1.5) * (365-p) / 235 * (f/15)$$

= 1.85 lb/acre/day

where s = 1.6 % silt content of material
 p = 125 days of rain greater than or equal to 0.01 inches
 f = 15 % of wind greater than or equal to 12 mph

$$E_p (\text{storage}) = E_f * sc * (40 \text{ cuft/ton}) / (2000 \text{ lb/ton}) / (43560 \text{ sqft/acre}) / (25 \text{ ft}) * (365 \text{ day/yr})$$

= 2.35 tons/yr

where sc = 189,000 tons storage capacity