

VIA CERTIFIED MAIL

Mr. William Critser  
Critser Company  
141532 South State Road 39  
Hanna, Indiana 46340

Re: Initial Site Approval (INDOT No. 5196)  
MSOP 091-10765, Pit ID 091-05196

Dear Mr. Critser:

This letter grants approval to construct the portable concrete crusher, INDOT No. 5196, described in Minor Source Operating Permit No. 091-10765, to be initially located at 141532, South State Road 39, Hanna, Indiana, in LaPorte County.

A two-week advance notice of start-up is required in order for IDEM to perform an inspection. If the plant is not operating in compliance with all applicable regulations upon inspection, the plant must cease operation upon notification to you by IDEM staff of such non-compliance. Operations may only resume once remedial actions have been taken.

If you have any questions concerning this permit, please contact Gary Freeman at the above address or via phone at 317/233-5334 or at 1-800-451-6027 ext. 3-5334.

Sincerely,

Paul Dubenetzky, Chief  
Permits Branch  
Office of Air Management

TE/EVP

cc: File - LaPorte County  
LaPorte County Health Department  
Air Compliance Inspector Rick Reynolds  
IDEM Northwest Indiana Office  
Permit Tracking - Janet Mobley  
Compliance Targeting - Wanda Stanfield  
Air Programs Section - Nancy Landau  
Data Support - Donna Dickison

**NEW SOURCE CONSTRUCTION PERMIT  
and MINOR SOURCE OPERATING PERMIT  
OFFICE OF AIR MANAGEMENT  
and IDEM NORTHWEST INDIANA OFFICE**

**Critser Company**

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

This permit is issued to the above mentioned company under the provisions of 326 IAC 2-1.1, 326 IAC 2-5.1, 326 IAC 2-6.1 and 40 CFR 52.780, with conditions listed on the attached pages.

Operation Permit No.: MSOP 091-10765-05196	
Issued by: Paul Dubenetzky, Branch Chief Office of Air Management	Issuance Date:

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**Record Keeping and Reporting Requirements**  
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## SECTION A

## SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Management (OAM) and the IDEM Northwest Indiana Office. The information describing the source contained in conditions A.1 and A.2 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 2-5.1-3(c)] [326 IAC 2-6.1-4(a)]

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The Permittee owns and operates a portable concrete crusher.

Authorized Individual: William Critser  
Initial Source Address: 141532 S. State Road 39, Hanna, Indiana 46340  
Mailing Address: 141532 S. State Road 39, Hanna, Indiana 46340  
Phone Number: 219-663-0052  
SIC Code: 3273  
Initial County Location: LaPorte  
County Status: Attainment for all criteria pollutants  
Source Status: Minor Source Operating Permit  
Minor Source, under PSD or Emission Offset Rules.

### A.2 Emissions units and Pollution Control Equipment Summary

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This portable source is approved to construct and operate the following emissions units and pollution control devices:

- (1) one (1) portable concrete batch crusher, with a maximum throughput of 300 tons of raw material per hour, using wet suppression for control of fugitive particulate matter. The crusher also contains a receiving hopper, transfer conveyor and screen; and
- (2) aggregate storage piles with a maximum capacity of 20,000 tons.

## **SECTION B GENERAL CONSTRUCTION CONDITIONS**

THIS SECTION OF THE PERMIT IS BEING ISSUED UNDER THE PROVISIONS OF 326 IAC 2-1.1 AND 40 CFR 52.780, WITH CONDITIONS LISTED BELOW.

### **B.1 Permit No Defense [IC 13]**

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

### **B.2 Definitions**

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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 2-1.1-1 shall prevail.

### **B.3 Effective Date of the Permit [IC13-15-5-3]**

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

### **B.4 Revocation of Permits [326 IAC 2-1.1-9(5)]**

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Pursuant to 326 IAC 2-1.1-9(5)(Revocation of Permits), the Commissioner may revoke this permit if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.

### **B.5 Modification to Permit [326 IAC 2]**

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All requirements and conditions of this construction permit shall remain in effect unless modified in a manner consistent with procedures established for modifications of construction permits pursuant to 326 IAC 2 (Permit Review Rules).

### **B.6 Minor Source Operating Permit [326 IAC 2-6.1]**

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This document shall also become a minor source operating permit pursuant to 326 IAC 2-6.1 when, prior to start of operation, the following requirements are met:

- (a) The attached affidavit of construction shall be submitted to the Office of Air Management (OAM), Permit Administration & Development Section, verifying that the emissions units were constructed as proposed in the application. The emissions units covered in the New Source Construction Permit may begin operating on the date the affidavit of construction is postmarked or hand delivered to IDEM.
- (b) If construction is completed in phases; i.e., the entire construction is not done continuously, a separate affidavit must be submitted for each phase of construction. Any permit conditions associated with operation start up dates such as stack testing for New Source Performance Standards (NSPS) shall be applicable to each individual phase.
- (c) The Permittee shall receive an Operation Permit Validation Letter from the Chief of the Permit Administration & Development Section and attach it to this document.
- (d) The operation permit will be subject to annual operating permit fees pursuant to 326 IAC 2-1.1-7(Fees).
- (e) Pursuant to 326 IAC 2-6.1-7, the Permittee shall apply for an operation permit renewal at

least ninety (90) days prior to the expiration date established in the validation letter. If IDEM, OAM, and the IDEM Northwest Indiana Office, 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 until the renewal permit has been issued or denied. The operation permit issued shall contain as a minimum the conditions in Section C and Section D of this permit.

B.7 NSPS Reporting Requirement

That pursuant to the New Source Performance Standards (NSPS), Part 60.670 through 60.676, Subpart OOO, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times:

- (a) Commencement of construction date (no later than 30 days after such date);
- (b) Anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
- (c) Actual start-up date (within 15 days after such date); and
- (d) Date of performance testing (at least 30 days prior to such date), when required by a condition elsewhere in this permit.

Reports are to be sent to:

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

and

IDEM Northwest Indiana Office  
Gainer Bank Building  
Suite 418  
504 North Broadway  
Gary, Indiana 46402

The application and enforcement of these standards have been delegated to the IDEM OAM. The requirements of 40 CFR Part 60 are also federally enforceable.

**SECTION C SOURCE OPERATION CONDITIONS**

Entire Source

**C.1 Minor Source Status [326 IAC 2-7] [326 IAC 2-2] [40 CFR 52.21] [326 IAC 2-3]**

- (a) The total source potential to emit of PM and PM10 is less than 100 tons per year. Therefore the requirements of 326 IAC 2-7 (Part 70 Permit Program), 326 IAC 2-3 (Emission Offset), 326 IAC 2-2 (Prevention of Significant Deterioration) and 40 CFR 52.21 will not apply.
- (b) The total source potential to emit of any individual hazardous air pollutant (HAP) is less than 10 tons per year, and the total source potential to emit of any combination of HAPs is less than 25 tons per year, therefore, the requirements of 326 IAC 2-7 (Part 70 Permit Program) will not apply.
- (c) Any change or modification which may increase potential to emit of any regulated pollutant to 100 tons per year from this source, shall cause this source to be considered a major source under 326 IAC 2-7, and shall require approval from IDEM, OAM prior to making the change.
- (d) Any change or modification which may increase potential to emit of any individual HAP to 10 tons per year or any combination of HAPs to 25 tons per year from this source, shall cause this source to be considered a major source under 326 IAC 2-7, and shall require approval from IDEM, OAM prior to making the change.

**C.2 Preventive Maintenance Plan [326 IAC 1-6-3]**

- (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 emissions unit:
  - (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

and

IDEM Northwest Indiana Office

Gainer Bank Building  
Suite 418  
504 North Broadway  
Gary, Indiana 46402

- (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, and the IDEM Northwest Indiana Office upon request and shall be subject to review and approval by IDEM, OAM, and the IDEM Northwest Indiana Office.

C.3 Permit Revision [326 IAC 2-5.1-3(e)(3)] [326 IAC 2-6.1-6]

- (a) The Permittee must comply with the requirements of [326 IAC 2-6.1-6] 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

and

IDEM Northwest Indiana Office  
Gainer Bank Building  
Suite 418  
504 North Broadway  
Gary, Indiana 46402

Any such application should be certified by the "authorized individual" as defined by 326 IAC 2-1.1-1.

- (c) The Permittee shall notify the OAM within thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]

C.4 Inspection and Entry [326 IAC 2-5.1-3(e)(4)(B)] [326 IAC 2-6.1-5(a)(4)]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, the Permittee shall allow IDEM, OAM, the IDEM Northwest Indiana Office, U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a permitted 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 this title or the conditions of this permit or any operating permit revisions;
- (c) Inspect, at reasonable times, any processes, emissions units (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit or any operating permit revisions;

- (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.
  - (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, the IDEM Northwest Indiana Office, 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, the IDEM Northwest Indiana Office, nor an authorized representative, may disclose the information unless and until IDEM, OAM, and the IDEM Northwest Indiana Office 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, IDEM, OAM, and the IDEM Northwest Indiana Office, 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]

C.5 Transfer of Ownership or Operation [326 IAC 2-6.1-6(d)(3)]  
Pursuant to [326 IAC 2-6.1-6(d)(3)] :

- (a) In the event that ownership of this source is changed, the Permittee shall notify IDEM, OAM, Permits Branch, and the IDEM Northwest Indiana Office, within thirty (30) days of the change.
- (b) The written notification shall be sufficient to transfer the permit to the new owner by an notice-only change pursuant to 326 IAC 2-6.1-6(d)(3).
- (c) IDEM, OAM, and the IDEM Northwest Indiana Office shall issue a revised permit.

The notification which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.

C.6 Permit Revocation [326 IAC 2-1-9]

Pursuant to 326 IAC 2-1-9(a)(Revocation of Permits), this permit to construct and operate may be revoked for any of the following causes:

- (a) Violation of any conditions of this permit.
- (b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this permit.
- (c) Changes in regulatory requirements that mandate either a temporary or permanent reduction of discharge of contaminants. However, the amendment of appropriate sections of this permit shall not require revocation of this permit.
- (d) Noncompliance with orders issued pursuant to 326 IAC 1-5 (Episode Alert Levels) to reduce emissions during an air pollution episode.

- (e) For any cause which establishes in the judgment of IDEM and the IDEM Northwest Indiana Office, the fact that continuance of this permit is not consistent with purposes of this article.

**C.7 Opacity [326 IAC 5-1]**

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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 twenty percent (20%) 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.8 Fugitive Dust Emissions [326 IAC 6-4]**

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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.9 Fugitive Particulate Matter Emission Limitations [326 IAC 6-5]**

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Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the plan submitted on March 17, 1999. The plan consists of utilizing a water mist dust suppression system as an air pollution control measure on the crushing operation.

**C.10 Fugitive Dust Emissions [326 IAC 6-1-11.1]**

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The Permittee shall be in violation of 326 IAC 6-1-11.1 (Lake County Fugitive Particulate Matter Control Requirements), if the opacity of fugitive particulate emissions from the storage piles or transfer of materials onto or out of the storage piles exceeds ten percent (10%), or if the opacity of fugitive particulate emissions from the crusher exceeds fifteen percent (15%) when the source is located in Lake County. Compliance with this opacity limit shall be achieved by controlling fugitive particulate matter emissions according to the plan submitted on August 23, 1999. The plan consists of controlling fugitive dust from the concrete crusher by using a dust suppression system which is installed on the feed box of the concrete crusher. The dust suppression system projects a high-pressure mist which wets fugitive dust so that it is collected with the crushed concrete. The portable concrete crusher will not be operated in Lake County without the dust suppression misting system to control fugitive dust emissions.

**Testing Requirements**

**C.11 Performance Testing [326 IAC 3-6]**

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- (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

and

IDEM Northwest Indiana Office  
Gainer Bank Building  
Suite 418  
504 North Broadway  
Gary, Indiana 46402

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, and the IDEM Northwest Indiana Office 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 "authorized individual" as defined by 326 IAC 2-1.1-1.

### **Compliance Monitoring Requirements**

#### **C.12 Compliance Monitoring [326 IAC 2-1.1-11]**

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 the 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

and

IDEM Northwest Indiana Office  
Gainer Bank Building  
Suite 418  
504 North Broadway  
Gary, Indiana 46402

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 "authorized individual" as defined by 326 IAC 2-1.1-1.

#### **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 Compliance Monitoring Plan - Failure to Take Response Steps [326 IAC 1-6]

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- (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, and the IDEM Northwest Indiana Office upon request and shall be subject to review and approval by IDEM, OAM, and the IDEM Northwest Indiana Office. 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.15 Actions Related to Noncompliance Demonstrated by a Stack Test**

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- (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 emissions unit 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 emissions unit.

The documents submitted pursuant to this condition do not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.

**Record Keeping and Reporting Requirements**

**C.16 Malfunctions Report [326 IAC 1-6-2]**

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Pursuant to 326 IAC 1-6-2 (Records; Notice of Malfunction):

- (a) A record of all malfunctions, including startups or shutdowns of any facility or emission control equipment, which result in violations of applicable air pollution control regulations or applicable emission limitations shall be kept and retained for a period of three (3) years and shall be made available to the Indiana Department of Environmental Management (IDEM), Office of Air Management (OAM) or appointed representative upon request.
- (b) When a malfunction of any facility or emission control equipment occurs which lasts more than one (1) hour, said condition shall be reported to OAM, using the Malfunction Report Forms (2 pages). Notification shall be made by telephone or facsimile, as soon as practicable, but in no event later than four (4) daytime business hours after the beginning of said occurrence.
- (c) Failure to report a malfunction of any emission control equipment shall constitute a violation of 326 IAC 1-6, and any other applicable rules. Information of the scope and expected duration of the malfunction shall be provided, including the items specified in 326 IAC 1-6-2(a)(1) through (6).

- (d) Malfunction is defined as any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner. [326 IAC 1-2-39]

C.17 Monitoring Data Availability [326 IAC 2-6.1-2] [IC 13-14-1-13]

- (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 and the IDEM Northwest Indiana Office 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.18 General Record Keeping Requirements [326 IAC 2-6.1-2]

- (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, and IDEM Northwest Indiana Office representative. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner, or the IDEM Northwest Indiana Office makes a written request for records to the Permittee, the Permittee shall furnish the records to the Commissioner or the IDEM Northwest Indiana Office 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.19 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]

- (a) To affirm that the source has met all the compliance monitoring requirements stated in this permit the source shall submit a Semi-annual Compliance Monitoring Report. Any deviation from the requirements and the date(s) of each deviation must be reported. The Compliance Monitoring Report shall include the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (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

and

IDEM Northwest Indiana Office  
Gainer Bank Building  
Suite 418  
504 North Broadway  
Gary, Indiana 46402

- (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, and the IDEM Northwest Indiana Office on or before the date it is due.

- (d) Unless otherwise specified in this permit, any semi-annual report shall be submitted within thirty (30) days of the end of the reporting period. The report does not require the certification by the “authorized individual” as defined by 326 IAC 2-1.1-1(1).
- (e) All instances of deviations must be clearly identified in such reports. A reportable 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) A malfunction as described in 326 IAC 1-6-2; 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 or failure to monitor or record the required compliance monitoring is a deviation.
- (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.

### **Portable Source Requirement**

#### **C.20 Relocation of Portable Sources [326 IAC 2-14-4] [326 IAC 2-6.1-6(d)(2)]**

- (a) This permit is approved for operation in all areas of Indiana. This determination is based on the requirements of Prevention of Significant Deterioration in 326 IAC 2-2 and 40 CFR 52.21, and Emission Offset requirements in 326 IAC 2-3. A thirty (30) day advance notice of relocation must be given to IDEM, OAM, and a “Relocation Site Approval” letter must be obtained before relocating.
- (b) The Permittee shall also notify the applicable local air pollution control agency when relocating to, or from, one the following:
  - (1) Madison County - (Anderson Office of Air Management)
  - (2) City of Evansville plus four (4) miles beyond the corporate limits but not outside Vanderburgh County - (Evansville EPA)
  - (3) City of Gary - (Gary Division of Air Pollution)
  - (4) City of Hammond - (Hammond Department of Environmental Management)
  - (5) Marion County - (Indianapolis Air Pollution Control Agency)
  - (6) St. Joseph County - (St. Joseph County Health Department)

- (7) Vigo County - (Vigo County Air Pollution Department)
- (c) That a valid operation permit consists of this document and any subsequent "Relocation Site Approval" letter specifying the current location of the portable plant.
  - (d) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.
  - (e) 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.
  - (f) 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 EMISSIONS UNIT OPERATION CONDITIONS

### Emissions unit Description

- (1) one (1) portable concrete batch crusher, with a maximum throughput of 300 tons of raw material per hour, using wet suppression for control of fugitive particulate matter. The crusher also contains a receiving hopper, transfer conveyor and screen; and
- (2) aggregate storage piles with a maximum capacity of 20,000 tons.

### Emission Limitations and Standards

D.1.1 Particulate Matter (PM) [326 IAC 12] [40 CFR 60.670 through 60.676, Subpart OOO]  
Pursuant to 40 CFR 60.670 through 60.676, Subpart OOO, the particulate emissions from:

- (a) the crushing operations to be limited to fifteen percent (15%) opacity or less, and
- (b) the screening and conveying operations to be limited to ten percent (10%) or less.

Compliance with these opacity limits shall also satisfy the requirements of 326 IAC 5-1.

D.1.2 Particulate Matter (PM) [326 IAC 6-3]  
Pursuant to 326 IAC 6-3 (Process Operations), the allowable PM emission rate from the concrete crusher, storage piles, and truck unloading operation shall not exceed 63.0 pounds per hour when operating at a process weight rate of 600,000 pounds per hour.

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

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:

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

D.1.3 Preventive Maintenance Plan [326 IAC 1-6-3]  
A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this emissions unit and any control devices.

### Compliance Determination Requirements

D.1.4 Testing Requirements [326 IAC 3-6] [40 CFR 60.675(c), Subpart OOO]  
Within 60 days after achieving the maximum production rate, but not later than 180 days after initial startup, the Permittee shall perform opacity testing on the concrete crusher to determine compliance with the NSPS, Subpart OOO pursuant to 40 CFR 60.675(c) and 40 CFR 60.11 utilizing Method 9 (40 CFR 60, Appendix A), or other methods as approved by the Commissioner. In addition to these requirements, IDEM may require compliance testing when necessary to determine if the emissions unit is in compliance.

D.1.5 Particulate Matter (PM)  
The wet suppression system for PM control shall be in operation at all times when the concrete crusher is in operation.

**Compliance Monitoring Requirements [326 IAC 2-5.1-3(e)(2)] [ 326 IAC 2-6.1-5(a)(2)]**

**D.1.6 Visible Emissions Notations**

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- (a) Daily visible emission notations of the crusher 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.

**Record Keeping and Reporting Requirements [326 IAC 2-5.1-3(e)(2)] [ 326 IAC 2-6.1-5(a)(2)]**

**D.1.7 Record Keeping Requirements**

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- (a) To document compliance with Condition D.1.6, the Permittee shall maintain records of daily visible emission notations of the crusher.
- (b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.



**the exemption under 326 IAC 1-6-4.**

**326 IAC 1-6-1 Applicability of rule**

Sec. 1. This rule applies to the owner or operator of any facility required to obtain a permit under 326 IAC 2-5.1 or 326 IAC 2-6.1.

**326 IAC 1-2-39 "Malfunction" definition**

Sec. 39. Any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner.

**\*Essential services** are interpreted to mean those operations, such as, the providing of electricity by power plants. Continued operation solely for the economic benefit of the owner or operator shall not be sufficient reason why a facility cannot be shutdown during a control equipment shutdown.

If this item is checked on the front, please explain rationale:

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## Indiana Department of Environmental Management Office of Air Management

### Addendum to the Technical Support Document for New Source Construction and Minor Source Operating Permit

Source Name: Critser Company  
 Initial Source Location: 141532 South State Road 39, Hanna, Indiana 46340  
 Initial County: LaPorte  
 Operation Permit No.: 091-10765-05196  
 SIC Code: 3273  
 Permit Reviewer: Trish Earls/EVP

On June 4, 1999, the Office of Air Management (OAM) had a notice published in the LaPorte Herald-Argus, LaPorte, Indiana, stating that Critser Company had applied for a construction permit to construct and operate a portable concrete crusher. 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.

On June 17, 1999, William Critser submitted comments on behalf of Critser Company on the proposed construction and operating permit. The summary of the comments and corresponding responses is as follows:

#### **Comment #1**

Critser Company requests permission to operate the portable crusher in Lake and Porter counties if the need arises.

#### **Response #1**

This source only emits particulate matter at a potential emission rate of less than 100 tons per year. Therefore, if the source operates in Lake county, which is the only county that is nonattainment for PM-10, it will still not be subject to the requirements of 326 IAC 2-3 (Emission Offset). However, the source will be subject to the requirements of 326 IAC 6-1-11.1 (Lake County Fugitive Particulate Matter Control Requirements) when located in Lake county. Also, the opacity limitations pursuant to 326 IAC 5-1-2(2)(B) for sources located in Lake county will now be applicable.

The portions of the State Rule Applicability - Entire Source section of the TSD, pages 4 and 5 of 6, pertaining to the applicability of 326 IAC 2-3 and 326 IAC 5-1-2 are revised as follows (changes in bold or strikeout):

#### **326 IAC 2-3 (Emission Offset)**

This source is not subject to the requirements of 326 IAC 2-3 because although it is a portable source, ~~it is not approved to operate in Lake and Porter Counties. Since this source only emits particulate matter, will not be located in Lake County, which is the only nonattainment area for PM10, and~~ it has potential PM10 emissions of less than 100 tons per year, **therefore**, the requirements of 326 IAC 2-3 will not apply.

326 IAC 5-1 (Opacity Limitations)

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

- (a) Opacity shall not exceed an average of ~~thirty~~ **twenty** percent (~~30%~~ **20%**) 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.

A paragraph discussing the applicability of 326 IAC 6-1-11.1 is now added to the TSD and reads as follows:

326 IAC 6-1-11.1 (Lake County Fugitive Particulate Matter Control Requirements)

This source is subject to the requirements of 326 IAC 6-1-11.1 when it is located in Lake county.

- (a) Pursuant to 326 IAC 6-1-11.1(d)(4), the opacity of fugitive particulate matter emissions from continuous transfer of material onto and out of storage piles shall not exceed ten percent (10%) on a three (3) minute average. Compliance with this limitation shall be determined by 40 CFR 60, Appendix A, Method 9.
- (b) Pursuant to 326 IAC 6-1-11.1(d)(5) regarding wind erosion from storage piles and exposed areas, the opacity of fugitive particulate emissions from storage piles shall not exceed ten percent (10%) on a six (6) minute average. Compliance with this limitation shall be determined by 40 CFR 60, Appendix A, Method 9.
- (c) Pursuant to 326 IAC 6-1-11.1(d)(7)(C), the opacity of fugitive particulate emissions from a crusher at which a capture system is not used shall not exceed fifteen percent (15%). Compliance with this limitation shall be determined by 40 CFR 60, Appendix A, Method 9.
- (d) Compliance with these opacity limits shall be achieved by controlling fugitive particulate matter emissions according to the plan submitted on August 23, 1999. The plan consists of controlling fugitive dust from the concrete crusher by using a dust suppression system which is installed on the feed box of the concrete crusher. The dust suppression system projects a high-pressure mist which wets fugitive dust so that it is collected with the crushed concrete. The portable concrete crusher will not be operated in Lake County without the dust suppression misting system to control fugitive dust emissions.

Condition C.7 of the MSOP, page 10 of 21, is revised as follows (changes in bold or strikethrough):

C.7 Opacity [326 IAC 5-1]

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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 ~~thirty~~ **twenty** percent (~~30%~~ **20%**) 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.

An additional condition has been added to section C of the MSOP to include the requirements of 326 IAC 6-1-11.1 for when the source is located in Lake county. The condition, numbered as condition C.10, reads as follows:

**C.10 Fugitive Dust Emissions [326 IAC 6-1-11.1]**

The Permittee shall be in violation of 326 IAC 6-1-11.1 (Lake County Fugitive Particulate Matter Control Requirements), if the opacity of fugitive particulate emissions from the storage piles or transfer of materials onto or out of the storage piles exceeds ten percent (10%), or if the opacity of fugitive particulate emissions from the crusher exceeds fifteen percent (15%) when the source is located in Lake County. Compliance with this opacity limit shall be achieved by controlling fugitive particulate matter emissions according to the plan submitted on August 23, 1999. The plan consists of controlling fugitive dust from the concrete crusher by using a dust suppression system which is installed on the feed box of the concrete crusher. The dust suppression system projects a high-pressure mist which wets fugitive dust so that it is collected with the crushed concrete. The portable concrete crusher will not be operated in Lake County without the dust suppression misting system to control fugitive dust emissions.

Condition C.19, now re-numbered as C.20, paragraph (a), of the MSOP, page 16 of 21, is revised as follows (changes in strikeout):

**C.20 Relocation of Portable Sources [326 IAC 2-14-4] [326 IAC 2-6.1-6(d)(2)]**

- (a) This permit is approved for operation in all areas of Indiana ~~except in severe nonattainment areas for ozone (at the time of this permit's issuance these areas were Lake and Porter Counties)~~. This determination is based on the requirements of Prevention of Significant Deterioration in 326 IAC 2-2 and 40 CFR 52.21, and Emission Offset requirements in 326 IAC 2-3. A thirty (30) day advance notice of relocation must be given to IDEM, OAM, and a "Relocation Site Approval" letter must be obtained before relocating.

**Comment #2**

The average crushed storage stockpile should be approximately 20,000 tons instead of 5,000 tons.

**Response #2**

The maximum aggregate stockpile storage capacity has been changed from 5,000 tons to 20,000 tons. The emission calculations and the equipment description sections in the TSD and section A.2 of the MSOP are revised accordingly. Potential PM and PM-10 emissions from the source are now 65.67 tons per year each.

**Indiana Department of Environmental Management  
Office of Air Management  
and IDEM Northwest Indiana Office**

Technical Support Document (TSD) for a New Source Construction and  
Minor Source Operating Permit

**Source Background and Description**

**Source Name:** Critser Company  
**Initial Source Location:** 141532 South State Road 39, Hanna, Indiana 46340  
**Initial County:** LaPorte  
**SIC Code:** 3273  
**Operation Permit No.:** MSOP 091-10765-05196  
**Permit Reviewer:** Trish Earls/EVP

The Office of Air Management (OAM) has reviewed an application from Critser Company relating to the construction and operation of a portable concrete crusher.

**New Emission Units and Pollution Control Equipment**

The application includes information relating to the construction and operation of the following equipment:

- (1) one (1) portable concrete batch crusher, with a maximum throughput of 300 tons of raw material per hour, using wet suppression for control of fugitive particulate matter. The crusher also contains a receiving hopper, transfer conveyor and screen; and
- (2) aggregate storage piles with a maximum capacity of 5,000 tons.

**Stack Summary**

Stack ID	Operation	Height (feet)	Diameter (feet)	Flow Rate (acfm)	Temperature (°F)
N/A					

**Enforcement Issue**

There are no enforcement actions pending.

**Recommendation**

The staff recommends to the Commissioner that the construction and operation 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.

A complete application for the purposes of this review was received on March 17, 1999.

**Emission Calculations**

See Appendix A of this document for detailed emissions calculations (1 page).

**Potential To Emit**

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as “the maximum capacity of a stationary source or emissions unit to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA, the department, or the appropriate local air pollution control agency.”

Pollutant	Potential To Emit (tons/year)
PM*	65.5
PM-10*	65.5
SO <sub>2</sub>	0.0
VOC	0.0
CO	0.0
NO <sub>x</sub>	0.0

\* All emissions are fugitive emissions

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of PM and PM-10 are equal to or greater than 25 tons per year. Therefore, pursuant to 326 IAC 2-1, Sections 1 and 3, a construction permit is required.
- (b) Fugitive Emissions  
Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.

**Actual Emissions**

No previous emission data has been received from the source.

**Limited Potential to Emit**

The table below summarizes the total potential to emit, reflecting all limits, of the significant emission units.

Process/facility	Limited Potential to Emit (tons/year)						
	PM	PM-10	SO <sub>2</sub>	VOC	CO	NO <sub>x</sub>	HAPs
Concrete crusher	65.49	65.49	0.0	0.0	0.0	0.0	0.0
<b>Total Emissions</b>	<b>65.49</b>	<b>65.49</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>

### County Attainment Status

The source is initially located in LaPorte County.

Pollutant	Status
PM-10	attainment
SO <sub>2</sub>	attainment
NO <sub>2</sub>	attainment
Ozone	attainment
CO	attainment
Lead	attainment

- (a) Volatile organic compounds (VOC) and oxides of nitrogen (NO<sub>x</sub>) are precursors for the formation of ozone. Therefore, VOC emissions are considered when evaluating the rule applicability relating to the ozone standards. LaPorte County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO<sub>x</sub> emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 and 40 CFR 52.21.
- (b) LaPorte County has been classified as attainment or unclassifiable for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 and 40 CFR 52.21.
- (c) Fugitive Emissions  
Since this type of operation is not one of the 28 listed source categories under 326 IAC 2-2, 40 CFR 52.21, or 326 IAC 2-3 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.

### Portable Source

- (a) Initial Location  
This is a portable source and its initial location is 141532 South State Road 39, Hanna, Indiana 46340
- (b) PSD and Emission Offset Requirements  
The emissions from this portable source were reviewed under the requirements of the Prevention of Significant Deterioration (PSD), 326 IAC 2-2, 40 CFR 52.21, and Emission Offset, 326 IAC 2-3.
- (c) Fugitive Emissions  
Since this type of operation is not one of the twenty-eight (28) listed sources under 326 IAC 2-2, 40 CFR 52.21, or 326 IAC 2-3 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.

### Source Status

New Source PSD Definition (emissions after controls, based on 8,760 hours of operation per year at rated capacity and/ or as otherwise limited):

Pollutant	Emissions (ton/yr)
PM	32.74
PM10	32.74
SO <sub>2</sub>	0.0
VOC	0.0
CO	0.0
NO <sub>x</sub>	0.0
Single HAP	0.0
Combination HAPs	0.0

- (a) This new source is **not** a major stationary source because no attainment pollutant is emitted at a rate of 250 tons per year or greater, no nonattainment pollutant is emitted at a rate of 100 tons per year or greater and it is not in one of the 28 listed source categories. Therefore, pursuant to 326 IAC 2-2 and 2-3, and 40 CFR 52.21, the PSD and Emission Offset requirements do not apply.

#### Part 70 Permit Determination

##### 326 IAC 2-7 (Part 70 Permit Program)

This new source is not subject to the Part 70 Permit requirements because the potential to emit (PTE) of:

- (a) each criteria pollutant is less than 100 tons per year,
- (b) a single hazardous air pollutant (HAP) is less than 10 tons per year, and
- (c) any combination of HAPs is less than 25 tons/year.

This is the first air approval issued to this source.

#### Federal Rule Applicability

- (a) This portable concrete crusher is subject to the New Source Performance Standard 326 IAC 12, 40 CFR 60.670 through 60.676, Subpart OOO. This rule requires the particulate emissions from:
  - (1) the crushing operations to be limited to fifteen percent (15%) opacity or less, and
  - (2) the screening and conveying operations to be limited to ten percent (10%) or less.
- (b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs)(326 IAC 14 and 40 CFR art 63) applicable to this source.

#### State Rule Applicability - Entire Source

##### 326 IAC 2-3 (Emission Offset)

This source is not subject to the requirements of 326 IAC 2-3 because although it is a portable source, it is not approved to operate in Lake and Porter Counties. Since this source only emits particulate matter, will not be located in Lake County, which is the only nonattainment area for PM10, and has potential PM10 emissions of less than 100 tons per year, the requirements of 326 IAC 2-3 will not apply.

##### 326 IAC 2-6 (Emission Reporting)

This portable source is not subject to the requirements of 326 IAC 2-6 because it does not have

the potential to emit greater than or equal to 10 tons per year of VOC or NO<sub>x</sub>, it does not have the potential to emit greater than or equal to 100 tons per year of PM<sub>10</sub> including fugitive emissions, and the source is not one of the twenty-eight (28) listed sources.

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

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

- (a) Opacity shall not exceed an average of thirty percent (30%) 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.

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

This source is subject to 326 IAC 6-4 for fugitive dust emissions. Pursuant to 326 IAC 6-4 (Fugitive Dust Emissions), fugitive dust shall not be visible crossing the boundary or property line of a source. Observances of visible emissions crossing property lines may be refuted by factual data expressed in 326 IAC 6-4-2(1), (2) or (3).

**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 consists of utilizing a water mist dust suppression system as an air pollution control measure on the crushing operation.

**State Rule Applicability - Individual Facilities**

**326 IAC 6-1 (Nonattainment Area Limitations)**

This source is not subject to the requirements of this rule because, although it is a portable source which can be located in any of the counties listed in section 7 of the rule, and actual PM emissions are greater than 10 tons per year, none of the operations at this source are enclosed or vented through a stack, therefore, it would not be practical to measure emissions from these operations.

**326 IAC 6-3-2 (Process Operations)**

The particulate matter (PM) emissions from the concrete crusher, storage piles, and truck unloading operation shall be limited to 63.0 pounds per hour based on 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:

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

The wet suppression system shall be in operation at all times the concrete crusher is in operation, in order to comply with this limit.

**Air Toxic Emissions**

Indiana presently requests applicants to provide information on emissions of the 188 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) Construction Permit Application Form Y.

None of the listed air toxics will be emitted from this source.

### **Conclusion**

The construction and operation of this portable concrete crusher shall be subject to the conditions of the attached proposed **New Source Construction and Minor Source Operating Permit 091-10765-05196**.

**Appendix A: Emission Calculations  
Portable Concrete Batch Plants**

<b>Company Name:</b>		Critser Company
<b>Address City IN Zip:</b>	141532 South SR 39, Hanna, Indiana 46340	
<b>Operating Permit No.:</b>		MSOP 091-10765
<b>Plt ID:</b>		091-05196
<b>Reviewer:</b>		Trish Earls/EVP
<b>Date:</b>		March 17, 1999

\* \* emissions before controls \* \*

Storage		** see page 2 **			0.25 tons/yr	AP-42 Ch.11.2.3 (Fourth edition, no update)
Transporting		** see page 3 **			13.78 tons/yr	AP-42 Ch. 13.2.2 (Supplement E, 9/98)
Concrete Crushing	300 ton/hr x	0.0007 lb/ton	/ 2000 lb/ton x	8760 hr/yr =	0.92 tons/yr	AP-42 Ch. 11.19.2 (Fifth edition, 1/95)
Aggregate Dropping	300 ton/hr x	0.0096 lb/ton	/ 2000 lb/ton x	8760 hr/yr =	12.62 tons/yr	AP-42 Ch. 13.2.4 (Fifth edition, 1/95)
Aggregate Transfer	300 ton/hr x	0.029 lb/ton	/ 2000 lb/ton x	8760 hr/yr =	38.11 tons/yr	AP-42 Ch.11.12.2 (Fifth edition, 1/95)
Total emissions before controls:					65.67 tons/yr	

\* \* emissions after controls \* \*

Storage	0.25 tons/yr x	50.0% emitted after controls =	0.12 tons/yr
Transporting	13.78 tons/yr x	50.0% emitted after controls =	6.89 tons/yr
Concrete Crushing	0.92 tons/yr x	50.0% emitted after controls =	0.46 tons/yr
Aggregate Dropping	12.62 tons/yr x	50.0% emitted after controls =	6.31 tons/yr
Aggregate Transfer	38.11 tons/yr x	50.0% emitted after controls =	19.05 tons/yr
Total emissions after controls:			32.84 tons/yr

\* \* storage \* \*

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

$$E_f = 1.7 \cdot (s/1.5)^{0.35} \cdot (365-p)/235 \cdot (f/15)$$

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

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

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

$$= 0.25 \text{ tons/yr}$$

where sc = 20,000 tons storage capacity

\* \* unpaved roads \* \*

The following calculations determine the amount of emissions created by unpaved roads, based on 8,760 hours of use and AP-42, Ch 13.2.2 (Supplement E, 9/98).  
Two methods are provided for calculating emissions. The first method does not consider natural mitigation due to precipitation.

$$8 \text{ trip/hr} \times 0.057 \text{ mile/trip} \times 2 \text{ (round trip) } \times 8760 \text{ hr/yr} = 7989.12 \text{ miles per year}$$

Method 1:

$$E_f = k \cdot [(s/12)^{0.8}] \cdot [(W/3)^b] / [(M/0.2)^c]$$

$$= 3.45 \text{ lb/mile}$$

where k = 2.6 (particle size multiplier for PM-10) (k=10 for PM-30 or TSP)  
s = 4.8 mean % silt content of unpaved roads  
b = 0.4 Constant for PM-10 (b = 0.5 for PM-30 or TSP)  
c = 0.3 Constant for PM-10 (c = 0.4 for PM-30 or TSP)  
W = 38 tons average vehicle weight  
M = 0.2 surface material moisture content, % (default is 0.2 for dry conditions)

$$\frac{3.45 \text{ lb/mi} \times 7989.12 \text{ mi/yr}}{2000 \text{ lb/ton}} = 13.78 \text{ tons/yr}$$

\* \* aggregate handling \* \*

The following calculations determine the amount of emissions created by dropping of material, based on 8,760 hours of use and AP-42, Ch. 13.2.4 (Fifth edition, 1/95):

$$E_f = k \cdot (0.0032) \cdot (U/5)^{1.3} / (M/2)^{1.4}$$

$$= 0.0096 \text{ lb/ton}$$

where k = 0.74 (particle size multiplier)  
U = 10 mile/hr mean wind speed  
M = 1.4 % material moisture content