



Joseph E. Kernan
Governor

Lori F. Kaplan
Commissioner

November 30, 2004

100 North Senate Avenue
P.O. Box 6015
Indianapolis, Indiana 46206-6015
(317) 232-8603
(800) 451-6027
www.in.gov/idem

TO: Interested Parties / Applicant

RE: Beemsterboer Slag Corporation / 089-19176-05260

FROM: Paul Dubenetzky
Chief, Permits Branch
Office of Air Quality

Notice of Decision: Approval - Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-15-5-3, this permit is effective immediately, unless a petition for stay of effectiveness is filed and granted according to IC 13-15-6-3, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3 and IC 13-15-6-1 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 1049, Indianapolis, IN 46204, **within eighteen (18) calendar days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

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

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

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

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

Enclosures
FNPER.dot 9/16/03



Joseph E. Kernan
Governor

Lori F. Kaplan
Commissioner

100 North Senate Avenue
P.O. Box 6015
Indianapolis, Indiana 46206-6015
(317) 232-8603
(800) 451-6027
www.in.gov/idem

**NEW SOURCE CONSTRUCTION PERMIT
and MINOR SOURCE OPERATING PERMIT**

**OFFICE OF AIR QUALITY
and
GARY DEPARTMENT OF ENVIRONMENTAL AFFAIRS**

**Beemsterboer Slag Corporation
Portable**

(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 2-5.1, 326 IAC 2-6.1 and 40 CFR 52.780, with conditions listed on the attached pages.

Operation Permit No.: MSOP 089-19176-05260	
Issued by: Original signed by Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: November 30, 2004 Expiration Date: November 30, 2009

TABLE OF CONTENTS

A	SOURCE SUMMARY	4
A.1	General Information [326 IAC 2-5.1-3(c)] [326 IAC 2-6.1-4(a)]	
A.2	Emission Units and Pollution Control Equipment Summary	
B	GENERAL CONDITIONS	5
B.1	Permit No Defense [IC 13]	
B.2	Definitions	
B.3	Effective Date of the Permit [IC 13-15-5-3]	
B.4	Revocation of Permits [326 IAC 2-1.1-9(5)]	
B.5	Permit Term and Renewal [326 IAC 2-6.1-7(a)][326 IAC 2-1.1-9.5]	
B.6	Modification to Permit [326 IAC 2]	
B.7	Minor Source Operating Permit [326 IAC 2-6.1]	
B.8	Phase Construction Time Frame	
B.9	NSPS Reporting Requirements	
B.10	Annual Notification [326 IAC 2-6.1-5(a)(5)]	
B.11	Preventive Maintenance Plan [326 IAC 1-6-3]	
B.12	Permit Revision [326 IAC 2-5.1-3(e)(3)][326 IAC 2-6.1-6]	
B.13	Inspection and Entry [326 IAC 2-5.1-3(e)(4)(B)][326 IAC 2-6.1-5(a)(4)][IC 13-14-2-2] [IC 13-17-3-2][IC 13-30-3-1]	
B.14	Transfer of Ownership or Operation [326 IAC 2-6.1-6(d)(3)]	
B.15	Annual Fee Payment [326 IAC 2-1.1-7]	
C	SOURCE OPERATION CONDITIONS.....	10
C.1	Permit Revocation [326 IAC 2-1.1-9]	
C.2	Opacity [326 IAC 5-1]	
C.3	Fugitive Dust Emissions [326 IAC 6-4]	
C.4	Lake County Particulate Matter Control Requirements and Fugitive Particulate Matter Emission Limitations [326 IAC 6-1-11.1] [326 IAC 6-5]	
C.5	Asbestos Abatement Projects [326 IAC 14-10][326 IAC 18][40 CFR 61, Subpart M]	
	Testing Requirements	
C.6	Performance Testing [326 IAC 3-6]	
	Compliance Requirements [326 IAC 2-1.1-11]	
C.7	Compliance Requirements [326 IAC 2-1.1-11]	
C.8	Monitoring Methods [326 IAC 3][40 CFR 60][40 CFR 63]	
	Record Keeping and Reporting Requirements	
C.9	Malfunctions Report [326 IAC 1-6-2]	
C.10	Emission Statement [326 IAC 2-6]	
C.11	General Record Keeping Requirements [326 IAC 2-6.1-5]	
C.12	General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-5] [IC 13-14-1-13]	
	Portable Source Requirement	
C.13	Relocation of Portable Sources [326 IAC 2-14-4] [326 IAC 2-6.1-6(d)(2)]	
D.1	EMISSIONS UNIT OPERATION CONDITIONS - Two (2) Crushers, Screen and Conveyors .	16
	Emission Limitations and Standards	
D.1.1	General Provisions Relating to NSPS [326 IAC 12-1][40 CFR Part 60, Subpart A]	
D.1.2	Particulate Emissions [40 CFR Part 60, Subpart OOO]	
D.1.3	Particulate Emissions [326 IAC 6-1-11.1]	

- D.1.4 Lake County Particulate Matter Contingency Measures [326 IAC 6-1-11.2]
- D.1.5 Particulate Matter (PM) [326 IAC 6-1-2 (a)]
- D.1.6 Preventive Maintenance Plan [326 IAC 1-6-3]

Compliance Determination Requirements

- D.1.7 Particulate Emissions [326 IAC 6-1-11.1]

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

- D.1.8 Record Keeping Requirements
- D.1.9 Reporting Requirements

D.2 EMISSIONS UNIT OPERATION CONDITIONS – One (1) Generator, Storage Piles, Vehicular Traffic on Unpaved Roads and Aggregate Handling..... 19

Emission Limitations and Standards

- D.2.1 Particulate Emissions [326 IAC 6-1-11.1]

Compliance Determination Requirements

- D.2.2 Particulate Emissions [326 IAC 6-1-11.1]

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

- D.2.3 Record Keeping Requirements
- D.2.4 Reporting Requirements

Annual Notification 22
Malfunction Report 23

SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) and Gary Department of Environmental Affairs (GDEA). 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)]

The Permittee owns and operates a portable concrete crushing and sizing plant.

Authorized Individual: President
Initial Source Address: 7501 W. Chicago Avenue, Gary, IN 46406
Mailing Address: P. O. Box 280, South Holland, IL 60473
General Source Phone: (773) 785-6000
SIC Code: 1422
County Location: Lake
Source Location Status: Nonattainment for SO₂
Nonattainment for ozone under the 8-hour and 1-hour standard
Attainment area for all other criteria pollutants
Source Status: Minor Source Operating Permit
Minor Source, under PSD and Emission Offset Rules, and
Nonattainment NSR
Minor Source, Section 112 of the Clean Air Act

A.2 Emissions Units and Pollution Control Equipment Summary

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

- (a) One (1) diesel fired generator, identified as EU 1, with a maximum capacity of 600 kW;
- (b) One (1) jaw crusher, identified as EU 2, with a maximum throughput capacity of 600 tons per hour of concrete;
- (c) One (1) cone crusher, identified as EU 3, with a maximum throughput capacity of 600 tons per hour of concrete;
- (d) One (1) portable scalping screen, identified as EU 4, with a maximum throughput capacity of 600 tons per hour of concrete;
- (e) Ten (10) conveyors, identified as EU 5, with a maximum throughput capacity of 600 tons per hour of concrete;
- (f) Five (5) outdoor storage piles, identified as FE 1, with a maximum capacity of 600 tons per hour of concrete, using wet suppression as control;
- (g) Vehicular traffic on unpaved plant roads, identified as FE 2, with maximum capacity of 50,000 vehicle miles traveled per year and using wet suppression as control;
- (h) Batch or continuous drop operations and loading from outdoor storage piles, identified as FE 3, with a maximum capacity of 600 tons per hour of concrete; and
- (i) One (1) diesel fired emergency generator, identified as EU 6, with a maximum capacity of 125 HP.

SECTION B GENERAL 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]

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

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations IC 13-11, 326 IAC 1-2, and 326 IAC 2-1.1-1 shall prevail.

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

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)]

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 Permit Term and Renewal [326 IAC 2-6.1-7(a)][326 IAC 2-1.1-9.5]

This permit is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions of this permit do not affect the expiration date.

The Permittee shall apply for an operation permit renewal at least ninety (90) days prior to the expiration date. If a timely and sufficient permit application for a renewal has been made, this permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied.

B.6 Modification to Permit [326 IAC 2]

Notwithstanding the Section B condition entitled "Minor Source Operating Permit", 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.7 Minor Source Operating Permit [326 IAC 2-6.1]

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 Quality (OAQ), Permit Administration & Development Section.
 - (1) If the Affidavit of Construction verifies that the facilities covered in this Construction Permit were constructed as proposed in the application, then the facilities may begin operating on the date the Affidavit of Construction is postmarked or hand delivered to IDEM.
 - (2) If actual construction of the emission units differs from the construction proposed in the application, the source may not begin operation until the permit has been revised pursuant to 326 IAC 2-6.1-6 and an Operation Permit Validation Letter is issued.

- (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) Upon receipt of the Operation Permit Validation Letter from the Chief of the Permit Administration & Development Section, the Permittee shall 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).

B.8 Phase Construction Time Frame

Pursuant to 326 IAC 2-1.1-9(5)(Revocation of Permits), the IDEM may revoke this permit to construct if the construction of the source has not begun within eighteen (18) months from the effective date of this permit or if during the construction of the source, work is suspended for a continuous period of one (1) year or more.

The OAQ may extend such time upon satisfactory showing that an extension, formally requested by the Permittee is justified.

B.9 NSPS Reporting Requirement

Pursuant to the New Source Performance Standards (NSPS), Part 60.670, 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) Actual start-up date (within 15 days after such date); and
- (c) 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 Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, IN 46206-6015

and

Gary Department of Environmental Affairs
Suite 1012
504 N. Broadway
Gary, IN 46402

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

B.10 Annual Notification [326 IAC 2-6.1-5(a)(5)]

- (a) Annual notification shall be submitted to the Office of Air Quality and GDEA stating whether or not the source is in operation and in compliance with the terms and conditions contained in this permit.

- (b) Noncompliance with any condition must be specifically identified. If there are any permit conditions or requirements for which the source is not in compliance at any time during the year, the Permittee must provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be, achieved. The notification must be signed by an "authorized individual" as defined in 326 IAC 2-1.1-1 (1).
- (c) The annual notice shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in the format attached no later than March 1 of each year to:

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

and

Gary Department of Environmental Affairs
Suite 1012
504 N. Broadway
Gary, IN 46402

- (d) The notification shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, and GDEA on or before the date it is due.

B.11 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 (PMPs) within ninety (90) days (this time frame is determined on a case by case basis but no more than 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; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

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

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

and

Gary Department of Environmental Affairs
Suite 1012
504 N. Broadway
Gary, IN 46402

The PMP extension notification does not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall implement the PMPs, including any required record keeping, as necessary to ensure that failure to implement a PMP does not cause or contribute to an exceedance of any limitation on emissions or potential to emit.
- (c) A copy of the PMP's shall be submitted to IDEM, OAQ, and GDEA upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ, and GDEA. IDEM, OAQ, and GDEA may require the Permittee to revise its PMP whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMP does not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (d) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation, Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.12 Permit Revision [326 IAC 2-5.1-3(e)(3)] [326 IAC 2-6.1-6]

- (a) Permit revisions are governed by the requirements of 326 IAC 2-6.1-6.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

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

and

Gary Department of Environmental Affairs
Suite 1012
504 N. Broadway
Gary, IN 46402

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

- (c) The Permittee shall notify the OAQ within thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]
- (d) No permit amendment or modification is required for the addition, operation or removal of a non-road engine, as defined in 40 CFR 89.2.

B.13 Inspection and Entry [326 IAC 2-5.1-3(e)(4)(B)] [326 IAC 2-6.1-5(a)(4)] [IC 13-14-2-2]
[IC13-17-3-2][IC 13-30-3-1]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, GDEA, 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) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy, at reasonable times, any records that must be kept under this title or the conditions of this permit or any operating permit revisions;
- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect, at reasonable times, any 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) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.14 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, OAQ, Permits Branch and GDEA, within thirty (30) days of the change.
- (b) The written notification shall be sufficient to transfer the permit to the new owner by a notice-only change pursuant to 326 IAC 2-6.1-6(d)(3).
- (c) IDEM, OAQ, and GDEA 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.

B.15 Annual Fee Payment [326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees to IDEM, OAQ within thirty (30) calendar days of receipt of a billing.
- (b) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

SECTION C

SOURCE OPERATION CONDITIONS

Entire Source

C.1 Permit Revocation [326 IAC 2-1.1-9]

Pursuant to 326 IAC 2-1.1-9 (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 GDEA, the fact that continuance of this permit is not consistent with purposes of this article.

C.2 Opacity [326 IAC 5-1]

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

- (a) Opacity shall not exceed an average of 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 non-overlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.3 Fugitive Dust Emissions [326 IAC 6-4]

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

C.4 Lake County Particulate Matter Control Requirements and Fugitive Particulate Matter Emission Limitations [326 IAC 6-1-11.1] [326 IAC 6-5]

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 exceeds ten percent (10%). In order to comply with this opacity limit and pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the plan submitted on July 9, 2004. The plan consists of:

- (a) Wet suppression of fugitive emissions from the unpaved plant roads and stockpiles.
- (b) Reduction of the speed of vehicles on the plant roads below 15 miles per hour.

- (c) Limiting the fall distance to a maximum of 5 feet at the end of the conveyors. On average, the fall distance is kept at 2 to 3 feet.
- (d) Keeping the records to document all control activities are implemented in accordance with the control plan. Records shall be retained for 3 years and shall be available upon request by the IDEM, OAQ and GDEA.

C.5 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
 - (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
 - (2) If there is a change in the following:
 - (A) Asbestos removal or demolition start date;
 - (B) Removal or demolition contractor; or
 - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

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

and

Gary Department of Environmental Affairs
Suite 1012
504 N. Broadway
Gary, IN 46402

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by an "authorized individual" as defined by 326 IAC 2-1.1-1 (1).

- (e) **Procedures for Asbestos Emission Control**
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Demolition and Renovation**
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or Renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) **Indiana Accredited Asbestos Inspector**
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Accredited Asbestos inspector is not federally enforceable.

Testing Requirements

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

- (a) Compliance testing on new emissions units shall be conducted within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up, if specified in Section D of this approval. All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

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

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

and

Gary Department of Environmental Affairs
Suite 1012
504 N. Broadway
Gary, IN 46402

no later than thirty-five (35) days prior to the intended test date.

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual date.
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ and GDEA not later than forty-five (45) days after the completion of the testing. An extension may be granted by the IDEM, OAQ, and GDEA, if the Permittee submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

C.7 Compliance Requirements [326 IAC 2-1.1-11]

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

C.8 Monitoring Methods [326 IAC 3][40 CFR 60][40 CFR 63]

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

Record Keeping and Reporting Requirements

C.9 Malfunctions Report [326 IAC 1-6-2]

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 Quality (OAQ) 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 OAQ, 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) A 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.10 Emission Statement [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 estimated actual emissions of criteria pollutants from the source, in compliance with 326 IAC 2-6 (Emission Reporting);
 - (2) Indicate estimated actual emissions of regulated pollutants (as defined by 326 IAC 2-7-1(32) "Regulated pollutant, which is used only for purposes of Section 19 of this rule") from the source, for 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 Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

Gary Department of Environmental Affairs
Suite 1012
504 N. Broadway
Gary, IN 46402

- (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, OAQ, and GDEA on or before the date it is due.

The submittal by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.

C.11 General Record Keeping Requirements [326 IAC 2-6.1-5]

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

C.12 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-5] [IC 13-14-1-13]

- (a) Reports required by conditions in Section D of this permit shall be submitted to:

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

and

Gary Department of Environmental Affairs
Suite 1012
504 N. Broadway
Gary, IN 46402

- (b) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, and GDEA on or before the date it is due.

- (c) Unless otherwise specified in this permit, any report required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. The report does not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (d) 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. Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

Portable Source Requirement

C.13 Relocation of Portable Sources [326 IAC 2-14-4] [2-6.1-6 (g)(2)]

- (a) This permit is approved for operation in all areas in Indiana.
- (b) A request to relocate shall be submitted to IDEM, OAQ at least thirty (30) days prior to the intended date of relocation. This submittal shall include the following:
 - (1) A list of governmental officials entitled to receive notice of application to relocate. IC 13-15-3-1
 - (2) A list of adjacent landowners that the Permittee will send written notice to not more than ten (10) days after submission of the request to relocate. IC 13-15-8

The notification by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) A "Relocation Site Approval" letter shall be obtained prior to relocating.
- (d) 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 Department of Environmental Affairs)
 - (4) City of Hammond - (Hammond Department of Environmental Management)
 - (5) Marion County - (Indianapolis Office of Environmental Services)
 - (6) Vigo County - (Vigo County Air Pollution Control)
- (e) A valid operation permit consists of this document and any subsequent "Relocation Site Approval" letter specifying the current location of the portable plant.

SECTION D.1

EMISSIONS UNITS OPERATION CONDITIONS

Emissions Unit Description:

- (a) One (1) jaw crusher, identified as EU 2, with a maximum throughput capacity of 600 tons per hour of concrete;
- (b) One (1) cone crusher, identified as EU 3, with a maximum throughput capacity of 600 tons per hour of concrete;
- (c) One (1) portable scalping screen, identified as EU 4, with a maximum throughput capacity of 600 tons per hour of concrete; and
- (d) Ten (10) conveyors, identified as EU 5, with a maximum throughput capacity of 600 tons per hour of concrete.

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

Emission Limitations and Standards

D.1.1 General Provisions Relating to NSPS [326 IAC 12-1][40 CFR Part 60, Subpart A]

The provisions of 40 CFR Part 60, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 12-1, apply to the facility described in this section except when otherwise specified in 40 CFR Part 60, Subpart OOO.

D.1.2 Particulate Emissions [40 CFR Part 60, Subpart OOO]

Pursuant to the New Source Performance Standards, 326 IAC 12 and 40 CFR 60.670 through 60.676, Subpart OOO (Standards of Performance for Nonmetallic Mineral Processing Plants):

- (a) the crushing operations (EU 2 and EU 3) shall be limited to 15 percent opacity or less, and
- (b) the screening (EU 4) and conveying operations (EU 5) shall be limited to 10 percent or less.

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

D.1.3 Particulate Emissions [326 IAC 6-1-11.1]

The jaw crusher (EU 2) and cone crusher (EU 3) are subject to the following:

- (a) Pursuant to 326 IAC 6-1-11.1 (d) (7) the Permittee shall allow zero percent frequency of visible emission observations from a building enclosing all or a part of the material processing equipment, except from a vent in the building.
- (b) Pursuant to 326 IAC 6-1-11.1 (d) (7) the Permittee shall not allow opacity of fugitive particulate emissions from the jaw crusher (EU 2) and cone crusher (EU 3) at which a capture system is not used to exceed fifteen percent (15%).

D.1.4 Lake County Particulate Matter Contingency Measures [326 IAC 6-1-11.2]

Pursuant to 326 IAC 6-1-11.2, upon notification from IDEM, OAQ and GDEA that the source has caused or contributed to an exceedance of the twenty-four (24) hour ambient air quality standard for PM10, the Permittee shall implement any reduction measures required by 326 IAC 6-1-11.2 within one hundred eighty (180) days of the initial notification

D.1.5 Particulate Matter (PM) [326 IAC 6-1-2(a)]

Pursuant to 326 IAC 6-1-2(a)(Nonattainment Area Particulate Limitations), particulate matter emissions from the jaw crusher EU 2, cone crusher EU 3, and scalping screen EU 4 shall each be limited to seven-hundredths (0.07) gram per dry standard cubic meter (g/dscm) (three-hundredths (0.03) grain per dry standard cubic foot (gr/dscf) of exhaust air).

D.1.6 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 these facilities and any control devices.

Compliance Determination Requirement

D.1.7 Particulate Emissions [326 IAC 6-1-11.1]

- (a) In order to comply with D.1.3, the Permittee shall control the fugitive particulate emissions by the implementation of a work program and work practice in accordance with the control plan submitted on July 9, 2004.
- (b) In order to comply with D.1.2 and D.1.3 (a) and (c), initial opacity tests shall be conducted within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up. These tests shall be performed utilizing U. S. EPA Method 9 (40 CFR Part 60, Appendix A) or other methods as approved by the Commissioner.
- (c) In order to comply with D.1.3 (b), initial visible emission observations tests shall be conducted within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up. These tests shall be performed utilizing U. S. EPA Method 22 (40 CFR Part 60, Appendix A) or other methods as approved by the Commissioner.
- (d) The tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. IDEM may require compliance testing when necessary to determine if the facility is in compliance. Testing shall be conducted in accordance with Section C - Performance Testing.

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

D.1.8 Record Keeping Requirements

Pursuant to 326 IAC 6-1-11.1(e) the Permittee shall keep the following records:

- (a) A map or diagram showing the location of all emission sources controlled, including the location, identification, length, and width of roadways.
- (b) For each application of water or chemical solution to roadways, the following shall be recorded:
 - (1) The name and location of the roadway controlled.
 - (2) Application rate.
 - (3) Time of each application.

- (4) Width of each application.
 - (5) Identification of each method of application.
 - (6) Total quantity of water or chemical used for each application.
 - (7) For each application of chemical solution, the concentration and identity of the chemical.
 - (8) The material data safety sheets for each chemical.
- (c) For application of physical or chemical control agents not covered by D.1.8(b), the following shall be recorded:
- (1) The name of the agent.
 - (2) Location of application.
 - (3) Application rate.
 - (4) Total quantity of agent used.
 - (5) If diluted, percent of concentration.
 - (6) The material data safety sheets for each chemical.
- (d) A log recording incidents when control measures were not used and a statement of explanation.
- (e) The records shall be kept and maintained for at least three (3) years and shall be available for inspection and copying by IDEM or GDEA representatives during working hours.

D.1.9 Reporting Requirements

- (a) Pursuant to 326 IAC 6-1-11.1(e)(4)(G), a quarterly report shall be submitted to the addresses listed in Section C - General Reporting Requirements, of this permit stating the following:
- (1) The dates any required control measures were not implemented.
 - (2) A listing of those control measures.
 - (3) The reasons that the control measures were not implemented.
 - (4) Any corrective action taken.
- The report shall be submitted thirty (30) calendar days from the end of each quarter period being reported. The report submitted by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1.
- (b) Pursuant to 326 IAC 6-1-11.1(e)(4)(E) the records required by D.1.8 shall be submitted within twenty (20) working days of a written request by IDEM or GDEA.

SECTION D.2

EMISSIONS UNITS OPERATION CONDITIONS

Emissions Unit Description:

- (a) One (1) diesel fired generator, identified as EU 1, with a maximum capacity of 600 kW;
- (b) Five (5) outdoor storage piles, identified as unit FE 1, with a maximum capacity of 600 tons per hour of concrete, using wet suppression as control;
- (c) Vehicular traffic on unpaved plant roads, identified as FE 2, with maximum capacity of 50,000 vehicle miles traveled per year and using wet suppression as control;
- (d) Batch or continuous drop operations and loading from outdoor storage piles, identified as FE 3, with a maximum capacity of 600 tons per hour of concrete; and
- (e) One (1) diesel fired emergency generator, identified as EU 6, with a maximum capacity of 125 HP.

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

Emission Limitations and Standards

D.2.1 Particulate Emissions [326 IAC 6-1-11.1]

- (a) Pursuant to 326 IAC 6-1-11.1 (d)(5), the opacity of fugitive particulate emissions from outdoor storage piles (FE 1) shall not exceed ten percent (10%) on a six (6) minute average. This limitation may not apply during periods when application of fugitive particulate control measures are either ineffective or unreasonable due to sustained very high wind speeds.
- (b) Pursuant to 326 IAC 6-1-11.1 (d)(2), the average instantaneous opacity of fugitive particulate emissions from unpaved plant roads (FE 2) shall not exceed ten percent (10%).

Compliance Determination Requirement

D.2.2 Particulate Emissions [326 IAC 6-1-11.1]

- (a) In order to comply with D.2.1, the Permittee shall control the fugitive particulate emissions by the implementation of a work program and work practice in accordance with the control plan submitted on July 9, 2004. IDEM may request a revision of the control plan pursuant to 326 IAC 6-1-11.1 (e)(8), if an observation shows an exceedance of the average instantaneous opacity limit.
- (b) In order to comply with D.2.1 (a), initial opacity tests shall be conducted within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up. The Permittee shall determine the opacity from outdoor storage piles (FE 1) using 40 CFR 60, Appendix A, Method 9, except that the opacity shall be observed at approximately four (4) feet from the surface at the point of maximum opacity. The observer shall stand approximately fifteen (15) feet from the plume and at approximately right angles to the plume. The opacity of fugitive particulate emissions from exposed areas shall not exceed ten percent (10%) on a six (6) minute average. The opacity limit shall not apply during periods when application of fugitive particulate control measures are either ineffective or unreasonable due to sustained very high wind speeds. During such periods, the Permittee shall continue to implement all reasonable fugitive particulate control measures and maintain records documenting the application of measures and the

basis for a claim that meeting the opacity limitation was not reasonable given prevailing wind conditions.

- (c) In order to comply with D.2.1 (b), the average instantaneous opacity from unpaved plant roads (FE 2) shall be determined according to the procedure described in 326 IAC 6-1-11.1 (d)(1).

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

D.2.3 Record Keeping Requirements

Pursuant to 326 IAC 6-1-11.1(e) the Permittee shall keep the following records:

- (a) A map or diagram showing the location of all emission sources controlled, including the location, identification, length, and width of roadways.
- (b) For each application of water or chemical solution to roadways, the following shall be recorded:
- (1) The name and location of the roadway controlled.
 - (2) Application rate.
 - (3) Time of each application.
 - (4) Width of each application.
 - (5) Identification of each method of application.
 - (6) Total quantity of water or chemical used for each application.
 - (7) For each application of chemical solution, the concentration and identity of the chemical.
 - (8) The material data safety sheets for each chemical.
- (c) For application of physical or chemical control agents not covered by D.2.3 (b), the following shall be recorded:
- (1) The name of the agent.
 - (2) Location of application.
 - (3) Application rate.
 - (4) Total quantity of agent used.
 - (5) If diluted, percent of concentration.
 - (6) The material data safety sheets for each chemical.
- (d) A log recording incidents when control measures were not used and a statement of explanation.

- (e) The records shall be kept and maintained for at least three (3) years and shall be available for inspection and copying by IDEM or GDEA representatives during working hours.

D.2.4 Reporting Requirements

- (a) Pursuant to 326 IAC 6-1-11.1(e)(4)(G) a quarterly report shall be submitted to the addresses listed in Section C - General Reporting Requirements, of this permit stating the following:

- (1) The dates any required control measures were not implemented.
- (2) A listing of those control measures.
- (3) The reasons that the control measures were not implemented.
- (4) Any corrective action taken.

The report shall be submitted thirty (30) calendar days from the end of each quarter period being reported. The report submitted by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1.

- (b) Pursuant to 326 IAC 6-1-11.1(e)(4)(E) the records required by D.2.3 shall be submitted within twenty (20) working days of a written request by IDEM or GDEA.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE BRANCH
and
GARY DEPARTMENT OF ENVIRONMENTAL AFFAIRS**

**MINOR SOURCE OPERATING PERMIT
ANNUAL NOTIFICATION**

This form should be used to comply with the notification requirements under 326 IAC 2-6.1-5(a)(5).

Company Name:	Beemsterboer Slag Corporation
Address:	7501 W. Chicago Avenue
City:	Gary
Phone #:	(773) 785-6000
MSOP #:	089-19176-05260

I hereby certify that source is still in operation.
 no longer in operation.

I hereby certify that source is in compliance with the requirements of MSOP 089-19176-05260
 not in compliance with the requirements of MSOP 089-19176-05260.

Authorized Individual (typed):
Title:
Signature:
Date:

If there are any conditions or requirements for which the source is not in compliance, provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be achieved.

Noncompliance:

MALFUNCTION REPORT

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
FAX NUMBER - 317 233-5967**

**This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6
and to qualify for the exemption under 326 IAC 1-6-4.**

THIS FACILITY MEETS THE APPLICABILITY REQUIREMENTS BECAUSE IT HAS POTENTIAL TO EMIT 25 TONS/YEAR PARTICULATE MATTER ?_____, 25 TONS/YEAR SULFUR DIOXIDE ?_____, 25 TONS/YEAR NITROGEN OXIDES?_____, 25 TONS/YEAR VOC ?_____, 25 TONS/YEAR HYDROGEN SULFIDE ?_____, 25 TONS/YEAR TOTAL REDUCED SULFUR ?_____, 25 TONS/YEAR REDUCED SULFUR COMPOUNDS ?_____, 25 TONS/YEAR FLUORIDES ?_____, 100TONS/YEAR CARBON MONOXIDE ?_____, 10 TONS/YEAR ANY SINGLE HAZARDOUS AIR POLLUTANT ?_____, 25 TONS/YEAR ANY COMBINATION HAZARDOUS AIR POLLUTANT ?_____, 1 TON/YEAR LEAD OR LEAD COMPOUNDS MEASURED AS ELEMENTAL LEAD ?_____, OR IS A SOURCE LISTED UNDER 326 IAC 2-5.1-3(2) ?_____. EMISSIONS FROM MALFUNCTIONING CONTROL EQUIPMENT OR PROCESS EQUIPMENT CAUSED EMISSIONS IN EXCESS OF APPLICABLE LIMITATION _____.

THIS MALFUNCTION RESULTED IN A VIOLATION OF: 326 IAC _____ OR, PERMIT CONDITION # _____ AND/OR PERM LIMIT OF _____

THIS INCIDENT MEETS THE DEFINITION OF 'MALFUNCTION' AS LISTED ON REVERSE SIDE ? Y N

THIS MALFUNCTION IS OR WILL BE LONGER THAN THE ONE (1) HOUR REPORTING REQUIREMENT ? Y N

COMPANY: Beemsterboer Slag Corporation PHONE NO. (773) 785-6000
LOCATION: (CITY AND COUNTY) Gary / Lake
PERMIT NO. 089-19176-05260 AFS PLANT ID: 089-05260 AFS POINT ID: _____ INSP: RGM/RGT
CONTROL/PROCESS DEVICE WHICH MALFUNCTIONED AND REASON: _____

DATE/TIME MALFUNCTION STARTED: ____/____/19____ AM / PM

ESTIMATED HOURS OF OPERATION WITH MALFUNCTION CONDITION: _____

DATE/TIME CONTROL EQUIPMENT BACK-IN SERVICE ____/____/19____ AM/PM

TYPE OF POLLUTANTS EMITTED: TSP, PM-10, SO2, VOC, OTHER: _____

ESTIMATED AMOUNT OF POLLUTANT EMITTED DURING MALFUNCTION: _____

MEASURES TAKEN TO MINIMIZE EMISSIONS: _____

REASONS WHY FACILITY CANNOT BE SHUTDOWN DURING REPAIRS:

CONTINUED OPERATION REQUIRED TO PROVIDE ESSENTIAL* SERVICES: _____

CONTINUED OPERATION NECESSARY TO PREVENT INJURY TO PERSONS: _____

CONTINUED OPERATION NECESSARY TO PREVENT SEVERE DAMAGE TO EQUIPMENT: _____

INTERIM CONTROL MEASURES: (IF APPLICABLE) _____

MALFUNCTION REPORTED BY: _____ TITLE: _____
(SIGNATURE IF FAXED)

MALFUNCTION RECORDED BY: _____ DATE: _____ TIME: _____

*SEE PAGE 2

Please note - This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6 and to qualify for 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:

**Indiana Department of Environmental Management
Office of Air Quality
and Gary Department of Environmental Affairs**

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

Source Background and Description

Source Name:	Beemsterboer Slag Corporation
Initial Source Location:	7501 W. Chicago Avenue IN 46406
County:	Lake
SIC Code:	1422
Operation Permit No.:	089-19176-05260
Operation Permit Issuance Date:	November 30, 2004
Permit Reviewer:	Gaurav Shil/EVP

On September 30, 2004, the Office of Air Quality (OAQ) had a notice published in the Post Tribune, Merrillville, IN stating that Beemsterboer Slag Corporation had applied for a minor source operating permit to construct and operate a portable concrete crushing and sizing plant. The notice also stated that OAQ proposed to issue a permit for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

No comments were received on the proposed permit. However, upon further consideration, IDEM, OAQ has decided to make changes to the permit as indicated below. Changes made to the permit are shown in bold and deleted permit language is shown with a line through it. Any permit changes affecting the permit's Table of Contents and formatting changes are also made without replication herein. Gary Department of Environmental Affairs is replaced with GDEA in several conditions of the permit without replication herein.

1. Condition B.8, Phase Construction Time Frame is included in the permit since the permit includes new construction:

B.8 Phase Construction Time Frame

Pursuant to 326 IAC 2-1.1-9(5)(Revocation of Permits), the IDEM may revoke this permit to construct if the construction of the source has not begun within eighteen (18) months from the effective date of this permit or if during the construction of the source, work is suspended for a continuous period of one (1) year or more.

The OAQ may extend such time upon satisfactory showing that an extension, formally requested by the Permittee is justified.

2. Condition B.10, Annual Notification is revised to include the address of Gary Department of Environmental Affairs and regulatory reference for the definition of authorized individual:

B.10 Annual Notification [326 IAC 2-6.1-5(a)(5)]

-
- (a) Annual notification shall be submitted to the Office of Air Quality **and GDEA** stating whether or not the source is in operation and in compliance with the terms and conditions contained in this permit.
 - (b) Noncompliance with any condition must be specifically identified. If there are any permit conditions or requirements for which the source is not in compliance at any time during the year, the Permittee must provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be, achieved. The notification must be signed by an "authorized individual" **as defined in 326 IAC 2-1.1-1 (1)**.

- (c) The annual notice shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in the format attached no later than March 1 of each year to:

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

and

**Gary Department of Environmental Affairs
Suite 1012
504 N. Broadway
Gary, IN 46402**

3. Condition C.4, Lake County Particulate Matter Control Requirements, and Condition C.5, Fugitive Particulate Matter Emission Limitations, are revised and combined as follows. The remaining Section C conditions have been re-numbered:

C.4 **Lake County Particulate Matter Control Requirements and Fugitive Particulate Matter Emission Limitations [326 IAC 6-1-11.1] [326 IAC 6-5]**

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 exceeds ten percent (10%). **In order to compliance comply with this opacity limit and pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled achieved by controlling fugitive particulate matter emissions** according to the plan submitted on July 9, 2004. The plan consists of:

- (a) Wet suppression of fugitive emissions from the unpaved plant roads and stockpiles.
- (b) Reduction of the speed of vehicles on the plant roads below 15 miles per hour.
- (c) Limiting the fall distance to a maximum of 5 feet at the end of the conveyors. On average, the fall distance is kept at 2 to 3 feet.
- (d) Keeping the records to document all control activities are implemented in accordance with the control plan. Records shall be retained for 3 years and shall be available upon request by the commissioner **IDEM, OAQ and GDEA.**

~~C.5 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 July 9, 2004. The plan consists of:~~

- ~~(a) Wet suppression of fugitive emissions from the unpaved plant roads and stockpiles.~~
- ~~(b) Reduction of the speed of vehicles on the Plant roads below 15 miles per hour.~~
- ~~(c) Limiting the fall distance to a maximum of 5 feet at the end of the conveyors. On average, the fall distance is kept at 2 to 3 feet.~~
- ~~(d) Keeping the records to document all control activities are implemented in accordance with the control plan. Records shall be retained for 3 years and shall be available upon request by the commissioner.~~

4. Condition C.6 (d), now Condition C.5 (d), is revised to include the correct regulatory reference for the definition of "authorized individual":

C.5 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by an "authorized individual" as defined by 326 IAC ~~2-7-1(34)~~ **2-1.1-1 (1)**.

5. Condition B.9, Local Agency Requirement, is deleted from the permit since the Gary Department of Environmental Affairs does not write permits and subsequent conditions in Section B are renumbered.
6. The opacity limits pursuant to 40 CFR Part 60, Subpart OOO and 326 IAC 5-1 are two different requirements. Therefore, both requirements are included in the permit and the Permittee shall demonstrate compliance with both the limits individually. Hence, Condition D.1.2 is revised as follows:

D.1.2 Particulate Emissions [40 CFR Part 60, Subpart OOO]

Pursuant to the New Source Performance Standards, 326 IAC 12 and 40 CFR 60.670 through 60.676, Subpart OOO (Standards of Performance for Nonmetallic Mineral Processing Plants):

- (a) the crushing operations (EU 2 and EU 3) shall be limited to 15 percent opacity or less, and
- (b) the screening (EU 4) and conveying operations (EU 5) shall be limited to 10 percent or less.

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

**Indiana Department of Environmental Management
Office of Air Quality
and Gary Department of Environmental Affairs**

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

Source Background and Description

Source Name:	Beemsterboer Slag Corporation
Initial Source Location:	7501 W. Chicago Avenue IN 46406
County:	Lake
SIC Code:	1422
Operation Permit No.:	089-19176-05260
Operation Permit Issuance Date:	Final Issuance Pending
Permit Reviewer:	Gaurav Shil/EVP

The Office of Air Quality (OAQ) has reviewed an application from Beemsterboer Slag Corporation relating to the construction and operation of a portable concrete crushing and sizing plant.

Source Definition

IDEM has determined that this portable concrete crushing and sizing plant (Plant ID 089-05260) is not an on-site contractor for or part of Ispat Inland Steel, Inc. (Plant ID 089-00316) and Beemsterboer Slag and Ballast Corp (Plant ID 089-00356). The portable source does not process raw material from the integrated steel mill or slag crushing and sizing operation and receives raw material from other private contractors and public roadway projects. Moreover the two plants have different processes and do not exchange products. Hence the two plants (Plant ID 089-00356 and 089-05260) are considered separate sources.

New Emission Units and Pollution Control Equipment

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

- (a) One (1) diesel fired generator, identified as EU 1, with a maximum capacity of 600 kW;
- (b) One (1) jaw crusher, identified as EU 2, with a maximum throughput capacity of 600 tons per hour of concrete;
- (c) One (1) cone crusher, identified as EU 3, with a maximum throughput capacity of 600 tons per hour of concrete;
- (d) One (1) portable scalping screen, identified as unit EU 4, with a maximum throughput capacity of 600 tons per hour of concrete;
- (e) Ten (10) conveyors, identified as EU 5, with a maximum throughput capacity of 600 tons per hour of concrete;
- (f) Five (5) outdoor storage piles, identified as unit FE 1, with a maximum capacity of 600 tons per hour of concrete, using wet suppression as control;
- (g) Vehicular traffic on unpaved plant roads, identified as FE 2, with maximum capacity of 49,976 vehicle miles traveled per year and using wet suppression as control;

- (h) Batch or continuous drop operations and loading from outdoor storage piles, identified as FE 3, with a maximum capacity of 600 tons per hour of concrete; and
- (i) One (1) diesel fired emergency generator, identified as EU 6, with a maximum capacity of 125 HP.

Unpermitted Emission Units and Pollution Control Equipment

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

Existing Approvals

The source has no existing approvals.

Stack Summary

There are no stacks associated with the emission units that comprise this source.

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.

An application for the purposes of this review was received on May 13, 2004 with additional information received on June 25, 2004.

Emission Calculations

See Appendix A of this document for detailed emission calculations (Appendix A, i.e. pages 1 through 7)

Potential to Emit of the Source Before Controls

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/yr)
PM	96.39
PM-10	89.47
SO ₂	2.66
VOC	3.22
CO	8.74
NO _x	40.57

HAPs	Potential to Emit (tons/yr)
Benzene	0.0085
Toluene	0.0037
Formaldehyde	0.0108
Xylenes	0.0026
Acetaldehyde	0.0070
Other	Negligible
Total	0.033

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of VOC is less than 25 tons per year and of other pollutants are less than 100 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-6.1. An MSOP will be issued.
- (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.

County Attainment Status

The source is initially located in Lake County.

Pollutant	Status
PM-10	Attainment
SO ₂	Primary nonattainment
NO ₂	Moderate nonattainment*
1-hr Ozone	Severe nonattainment*
8-hr Ozone	Moderate Nonattainment
CO	Attainment
Lead	Attainment

* Reflects attainment status revision effective on June 15, 2004.

- (a) Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone.
 - (1) On January 26, 1996 in 40 CFR 52.777(i), the U.S. EPA granted a waiver of the requirements of Section 182(f) of the CAA for Lake and Porter Counties, including the lower NOx threshold for nonattainment new source review. Therefore, VOC emissions alone are considered when evaluating the rule applicability relating to the 1-hour ozone standards. Lake County has been designated as nonattainment in Indiana for the 1-hour ozone standard. Therefore, VOC emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3. See the State Rule Applicability for the source section.
 - (2) VOC and NOx emissions are considered when evaluating the rule applicability relating to the 8-hour ozone standard. Lake County has been designated as nonattainment for the 8-hour ozone standard. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for nonattainment new source review.
- (b) Lake County has been classified as nonattainment in Indiana for SO₂. Therefore, these emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3. See the State Rule Applicability for the source section.
- (c) Lake County has been classified as attainment or unclassifiable for the remaining criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

Portable Source

- (a) **Initial Location**
This is a portable source and its initial location is 7501 W. Chicago Avenue, Gary, IN 46406.
- (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 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 or 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 8760 hours of operation per year at rated capacity and/or as otherwise limited):

Pollutant	Emissions (tons/yr)
PM	64.82
PM-10	61.35
SO ₂	2.66
VOC	3.22
CO	8.74
NO _x	40.57
Single HAP	0.01
Combination HAPs	0.03

- (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, VOC is not emitted at a rate of 25 tons per year or greater, SO_x is not emitted at a rate of 100 tons per year or greater, NO_x is not emitted at a rate of 100 tons per year or greater, and the source is not in one of the 28 listed source categories. Therefore, pursuant to 326 IAC 2-2 and 2-3, the PSD, Nonattainment NSR, 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 per year.

This is the first air approval issued to this source.

Federal Rule Applicability

- (a) The jaw crusher (EU 2), cone crusher (EU 3), portable screen (EU 4) and conveyors (EU 5) are subject to the New Source Performance Standard 326 IAC 12, 40 CFR 60.670 through 60.676, Subpart OOO (Standards of Performance for Nonmetallic Mineral Processing Plants). This rule applies to stack and fugitive emissions from nonmetallic mineral processing facilities. Pursuant to this rule, the particulate emissions from any crushing operation and conveying operation, at which capture systems are not used, shall be limited to fifteen percent (15%) opacity or less and ten percent (10%) opacity or less, respectively. Truck dumping of nonmetallic minerals into any screening operation, feed hopper, or crusher is exempt from the requirements of this rule. The permittee shall not discharge any visible emissions into atmosphere from any screening operation that processes any saturated material in the production line up to the next crusher or from any screening operation in the production line downstream which processes saturated material up to the first crusher in the production line.
- (b) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP), Subpart ZZZZ are not included in the permit for the diesel fired generators, identified as EU 1 and EU 6. EU 1 and EU 6 are located at a portable source which is not a major source of HAP emissions.

State Rule Applicability – Entire Source

326 IAC 2-6 (Emission Reporting)

This source is subject to 326 IAC 2-6 (Emission Reporting) because the source is located in Lake County and has the potential to emit more than twenty five (25) tons per year of NOx. 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 (Opacity Limitations)

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

- (a) Opacity shall not exceed an average of 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.

326 IAC 6-1-2 (Nonattainment Area Particulate Matter Limitations)

The source is not subject to the requirements of 326 IAC 6-1-2(g) for mineral aggregate operations because the source does not use a total enclosure. This notwithstanding, operations not limited by subsections (b), (e), (f) or (g) shall be limited to seven-hundredths (0.07) gram per dry standard cubic meter (g/dscm) (three-hundredths (0.03) grain per dry standard cubic foot (gr/dscf) of exhaust air). The jaw crusher EU 2, cone crusher EU 3, and scalping screen EU 4, shall each comply with this limit.

326 IAC 6-1-10.1 (Lake County PM-10 Emission Requirements)

The source is not listed in 326 IAC 6-1-10 (d). Therefore, pursuant to 326 IAC 6-1-10 (a), the requirements of 326 IAC 6-1-10 do not apply.

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 includes the following:

- (a) Fugitive emissions from the unpaved plant roads and stockpiles shall be controlled by wet suppression no less than once per day. During the summer the truck shall operate constantly during the working hours. Beemsterboer operates one tanker and has an additional tanker on standby for watering the Plant. The two (2) trucks have a capacity of 4,200 gallons and 4,000 gallons each.
- (b) Fugitive emissions from the unpaved plant roads shall also be minimized by keeping the speed of vehicles on the Plant roads below 15 miles per hour. On average 20 to 25 trucks of finished product leave the plant each day, five days per week.
- (c) Fugitive emissions generated at the end of the conveyors are controlled by limiting the fall distance to a maximum of 5 feet. On average, the fall distance is kept at 2 to 3 feet.
- (d) Records shall be kept and maintained to document all control activities to be implemented in accordance with this control plan. Records shall be retained for 3 years and shall be available upon request by the commissioner.

326 IAC 8-6 (Organic Solvent Emission Limitations)

The source is located in Lake County and the potential to emit VOC from the entire source is less than one hundred (100) tons per year. Therefore, pursuant to 326 IAC 8-6-1 (1), the requirements of this rule do not apply.

326 IAC 8-7 (Specific VOC Reduction Requirements for Lake, Porter, Clark and Floyd Counties)

The source is not subject to the requirements of 326 IAC 8-7 (Specific VOC Reduction Requirements for Lake, Porter, Clark and Floyd Counties). The total potential to emit VOC from the source is less than the rule applicability threshold of 25 tons per year. Therefore, the source is not subject to the requirements of 326 IAC 8-7 (Specific VOC Reduction Requirements for Lake, Porter, Clark and Floyd Counties).

State Rule Applicability – Individual Facilities

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

The portable concrete crushing and sizing operation will emit less than 10 tons per year of a single HAP or 25 tons per year of a combination of HAPs. Therefore, 326 IAC 2-4.1 does not apply.

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

The source is subject to the control requirements of 326 IAC 6-1-11.1 because the following facilities have the potential to emit of fugitive particulate matter greater than five (5) tons per year:

- (a) One (1) jaw crusher (EU 2)
- (b) One (1) cone crusher (EU 3)
- (c) One (1) portable scalping screen (EU 4)
- (d) Five (5) outdoor storage piles (FE 1)
- (e) Vehicular traffic on unpaved plant roads (FE 2)

Conveyors (EU 5) and aggregate handling/dropping operations (FE 3) are not subject to the requirements of 326 IAC 6-1-11.1 because they have potential to emit particulate matter less than five (5) tons per year.

Pursuant to 326 IAC 6-1-11.1, the source shall be subject to the following requirements:

- (a)
 - (1) The opacity of fugitive particulate emissions from EU 2 and EU 3 at which a capture system is not used shall each not exceed fifteen percent (15%). Compliance with this limitation shall be determined by 40 CFR 60, Appendix A, Method 9.
 - (2) The opacity of fugitive particulate emissions from EU 4 shall not exceed a twenty percent (20%), three (3) minute opacity standard. Compliance with this limitation shall be determined by 40 CFR 60, Appendix A, Method 9, except that the opacity standard shall be determined as an average of twelve (12) consecutive observations recorded at fifteen (15) second intervals. Compliance of any operation lasting less than three (3) minutes shall be determined as an average of consecutive observations recorded at fifteen (15) second intervals for the duration of the operation.
- (b) The opacity of fugitive particulate emissions from storage piles (FE 1) shall not exceed ten percent (10%) on a six (6) minute average. These limitations may not apply during periods when application of fugitive particulate control measures are either ineffective or unreasonable due to sustained very high wind speeds. During such periods, the company must continue to implement all reasonable fugitive particulate control measures and maintain records documenting the application of measures and the basis for a claim that meeting the opacity limitation was not reasonable given prevailing wind conditions. The opacity shall be determined using 40 CFR 60, Appendix A, Method 9, except that the opacity shall be observed at approximately four (4) feet from the surface at the point of maximum opacity. The observer shall stand approximately fifteen (15) feet from the plume and at approximately right angles to the plume. The opacity of fugitive particulate emissions from exposed areas shall not exceed ten percent (10%) on a six (6) minute average.
- (c) The average instantaneous opacity of fugitive particulate emissions from the unpaved plant roads (FE 2) shall not exceed ten percent (10%). OAQ may request a revision of the control plan pursuant to 326 IAC 6-1-11.1 (e)(8), if an observation shows an exceedance of the average instantaneous opacity limit. This revision may be in lieu of, or in addition to, pursuing an enforcement action for a violation of the limit. The average instantaneous opacity shall be the average of twelve (12) instantaneous opacity readings, taken for four (4) vehicle passes, consisting of three (3) opacity readings for each vehicle pass. The three (3) opacity readings for each vehicle pass shall be taken as follows:
 - (A) The first shall be taken at the time of emission generation.
 - (B) The second shall be taken five (5) seconds later.
 - (C) The third shall be taken five (5) seconds later or ten (10) seconds after the first.The three (3) readings shall be taken at the point of maximum opacity. The observer shall stand approximately fifteen (15) feet from the plume and at approximately right angles to the plume. Each reading shall be taken approximately four (4) feet above the surface of the roadway or parking area. The fugitive particulate emissions from unpaved roads shall be controlled by the implementation of a work program and work practice under the control plan required in 326 IAC 6-1-11.1 (e).

- (d) Pursuant to 326 IAC 6-1-11.1 (d) (7) (D) there shall be a zero percent frequency of visible emission observations from a building enclosing all or a part of the material processing equipment, except from a vent in the building.
- (e) The Permittee submitted a control plan on July 9, 2004 which, when fully implemented, will achieve compliance with the applicable emission limitations. The Permittee shall operate all the facilities to which 326 IAC 6-1-11.1 applies in accordance with the submitted control plan.

326 IAC 6-1-11.2 (Lake County Particulate Matter Contingency Measures)

This source is located in Lake County and it has sources of fugitive particulate emissions to which 326 IAC 6-1-11.1(a) applies, as discussed above. The source also has a potential to emit PM-10 greater than ten (10) tons per year. Therefore, the requirements of 326 IAC 6-1-11.2 are applicable to this source. Pursuant to 6-1-11.2, upon notification from IDEM, OAQ and Gary Department of Environmental Affairs that the source has caused or contributed to an exceedance of the twenty-four (24) hour ambient air quality standard for PM10, the Permittee shall implement any reduction measures required by 326 IAC 6-1-11.2 within one hundred eighty (180) days of the initial notification.

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

The requirements of 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes) do not apply to this source because the source is subject to the requirements of 326 IAC 6-1.

326 IAC 7-4-1.1 (Lake County Sulfur Dioxide Emission Limitations)

The two (2) diesel fired generators (EU 1 and EU 6) are not subject to the requirements of 326 IAC 7-4-1.1 (Lake County Sulfur Dioxide Emission Limitations) because the potential to emit of sulfur dioxide (SO₂) from each of these facilities is less than 25 tons per year.

326 IAC 8-1-6 (New Facilities; General VOC Reduction Requirements)

This rule applies to facilities located anywhere in the state that were constructed on or after January 1, 1980, which have a potential to emit (PTE) VOC at 25 tons per year or more, and which are not otherwise regulated by another provision of Article 8. No facility at this source has a PTE VOC at 25 tons per year or more. Therefore, 326 IAC 8-1-6 is not applicable to this source.

Conclusion

The construction and operation of this portable concrete crushing and sizing plant shall be subject to the conditions of the New Source Construction and Minor Source Operating Permit 089-19176-05260.

Appendix A: Emission Calculations

Fugitive Emissions Calculations

Company Name: Beemsterboer Slag Corporation
Address City IN Zip: 7501 W. Chicago Avenue, Gary, IN 46406
Permit Number: 089-19176-05260
Reviewer: Gaurav Shil/EVP
Date: 11/30/2004

Uncontrolled Potential Emissions (tons/year)										
Emissions Generating Activity										
Pollutant	Internal Combustion Engine	Jaw Crushers	Cone Crusher	Screens	Conveyors	Concrete Piles	Trucks	Drop Operations	Emergency Generator	TOTAL
PM	2.83	6.31	6.31	22.86	2.89	11.62	42.23	1.32	0.02	96.39
PM10	2.83	6.31	6.31	22.86	2.89	11.62	35.31	1.32	0.02	89.47
SO2	2.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	2.66
NOx	40.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	40.57
VOC	3.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	3.22
CO	8.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	8.74
total HAPs	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
worst case single HAP	0.01									
	Formaldehyde									
Total emissions based on rated capacity at 8,760 hours/year.										
Controlled Potential Emissions (tons/year)										
Emissions Generating Activity										
Pollutant	Internal Combustion Engine	Jaw Crushers	Cone Crusher	Screens	Conveyors	Concrete Piles*	Trucks*	Drop Operations	Emergency Generator	TOTAL
PM	2.83	6.31	6.31	22.86	2.89	1.16	21.12	1.32	0.02	64.82
PM10	2.83	6.31	6.31	22.86	2.89	1.16	17.65	1.32	0.02	61.35
SO2	2.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	2.66
NOx	40.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	40.57
VOC	3.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	3.22
CO	8.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	8.74
total HAPs	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
worst case single HAP	0.01									
	Formaldehyde									
* Unpaved roads and wind erosion emissions are controlled with wet suppression.										

**Appendix A: Emission Calculations
Internal Combustion Engine - Diesel Fuel
Diesel Generator (>600 HP)**

Company Name: Beemsterboer Slag Corporation
Address City IN Zip: 7501 W. Chicago Avenue, Gary, IN 46406
Permit Number: 089-19176-05260
Reviewer: Gaurav Shil/EVP
Date: 11/30/2004

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

Maximum Rating (kW) 600

Heat Input Capacity
MMBtu/hr

2.1

Emission Factor in lb/MMBtu	Pollutant					
	PM	PM10	SO2	NOx	VOC	CO
	0.31	0.31	0.29	4.41	0.35	0.95
Potential Emission in tons/yr	2.83	2.83	2.64	40.22	3.19	8.66

Methodology

Emission Factors are from AP42 (Fifth edition, January 1995), Table 3.3-1
 Potential Emission (tons/yr) = [Heat input rate (MMBtu/hr) x Emission Factor (lb/MMBtu)] * 8760 hr/yr / (2,000 lb/ton)

Appendix A: Emissions Calculations
Internal Combustion Engine - Diesel Fuel
Diesel Generator (>600 HP)
HAPs Emissions

Company Name: Beemsterboer Slag Corporation
Address City IN Zip: 7501 W. Chicago Avenue, Gary, IN 46406
Permit Number: 089-19176-05260
Reviewer: Gaurav Shil/EVP
Date: 11/30/2004

HAPs - Organics

	Benzene	Toluene	Formaldehyde	Xylenes	Acetaldehyde
Emission Factor in lb/MMcf	9.3E-04	4.1E-04	1.2E-03	2.9E-04	7.7E-04
Potential Emission in tons/yr	0.0085	0.0037	0.0108	0.0026	0.0070

Methodology is the same as Page 2.

The five highest organic HAPs emission factors are provided above.
Additional HAPs emission factors are available in AP-42, Chapter 3.3.

**Appendix A: Emission Calculations
Fugitive Emissions Calculations**

Company Name: Beemsterboer Slag Corporation
Address City IN Zip: 7501 W. Chicago Avenue, Gary, IN 46406
Permit Number: 089-19176-05260
Reviewer: Gaurav Shil/EVP
Date: 11/30/2004

** emissions before controls **

Storage	** see below **	11.62 tons/yr		AP-42 Ch.11.2.3 (Fourth edition, no update)
Unpaved Roads (PM10)	** see page 5 **	35.31 tons/yr		AP-42 Ch. 13.2.2 (Supplement E, 12/03)
Aggregate Handling	** see page 6 **	1.32 tons/yr		AP-42 Ch. 13.2.4 (Fifth edition, 1/95)
Jaw Crusher	600 ton/hr x 0.0024 lb/ton / 2000 lb/ton 8760 hr/yr =	6.31 tons/yr	1.44 lb/hr	AP-42 Ch. 13.2.4 (Fifth edition, 1/95)
Cone Crusher	600 ton/hr x 0.0024 lb/ton / 2000 lb/ton 8760 hr/yr =	6.31 tons/yr	1.44 lb/hr	AP-42 Ch. 11.19.2 (Fifth edition, 1/95)
Screens	600 ton/hr x 0.0087 lb/ton / 2000 lb/ton 8760 hr/yr =	22.86 tons/yr	5.22 lb/hr	AP-42 Ch. 11.19.2 (Fifth edition, 1/95)
Conveyors	600 ton/hr x 0.0011 lb/ton / 2000 lb/ton 8760 hr/yr =	2.89 tons/yr	0.66 lb/hr	AP-42 Ch. 11.19.2 (Fifth edition, 1/95)
Total emissions before controls:		86.62 tons/yr		

Unpaved Roads (PM)	** see page 5 **	42.23 tons/yr	9.64 lb/hr	AP-42 Ch. 13.2.2 (Supplement E, 12/03)
--------------------	------------------	---------------	------------	--

** 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

Pile Height = 45 ft
Pile Density = 0.075 ton/ft³
No. of storage piles = 5
Storage pile capacity = (600 tons/hr X 8760 hr/yr) / 5 = 1051200

Base area, acres/pile = Storage pile capacity X (Pile density)⁻¹ X (Pile Height)⁻¹ X 2.3*10⁻⁹ acres/ft²
= 7.16

Uncontrolled PTE = No. of storage piles X EF, lb/day/acre X base area of pile, acres/pile X day/24 hrs
= 2.65 lb/hr
= 11.62 tons/yr

Controlled PTE = Uncontrolled PTE X (1 - control efficiency (0.5))
= 5.81 tons/yr

**Appendix A: Emission Calculations
Fugitive Emissions Calculations**

Company Name: Beemsterboer Slag Corporation
Address City IN Zip: 7501 W. Chicago Avenue, Gary, IN 46406
Permit Number: 089-19176-05260
Reviewer: Gaurav Shil/EVP
Date: 11/30/2004

** unpaved roads PM10 emissions**

The following calculations determine the amount of PM10 emissions created by loose dry surface dust on unpaved roads, based on 8,760 hours of use and AP-42, Ch 13.2.2 (Rev. 12/03).

11.41 round trips/hr
 8760 hours/year
 0.25 mile/trip x
 2 (round trip) x = 49975.8 miles per year

$$E_f = k \left[\frac{s}{12} \right]^a \left[\frac{W}{3} \right]^b \left[\frac{365-p}{365} \right]$$

= 1.41 lb/mile

where k = 1.5 (particle size multiplier for PM-10)
 s = 4.9 mean % silt content of unpaved roads
 p = 125 days of rain greater than or equal to 0.01 inches
 a = 0.9 Constant for PM-10
 b = 0.45 Constant for PM-10
 W = 40 tons average vehicle weight
 M = 0.2 surface material moisture content, % (default is 0.2 for dry conditions)

$$\frac{1.41 \text{ lb/mi} \times 49975.8 \text{ mi/yr}}{2000 \text{ lb/ton}} = 35.31 \text{ tons/yr potential}$$

Unpaved road emission is controlled with water suppressant (50% control efficiency)

$$35.31 \text{ lb/mi} \times 0.5 \text{ mi/yr} = 17.65 \text{ tons/yr limited}$$

** unpaved roads PM emissions**

The following calculations determine the amount of PM emissions created by loose dry surface dust on unpaved roads, based on 8,760 hours of use and AP-42, Ch 13.2.2 (Rev. 12/03).

11.41 round trips/hr
 8760 hours/year
 0.25 mile/trip x
 2 (round trip) x = 49975.8 miles per year

$$E_f = k \left[\frac{s}{12} \right]^a \left[\frac{W}{3} \right]^b \left[\frac{365-p}{365} \right]$$

= 1.69 lb/mile

where k = 1.5 (particle size multiplier for PM-10)
 s = 4.9 mean % silt content of unpaved roads
 p = 125 days of rain greater than or equal to 0.01 inches
 a = 0.7 Constant for PM-10
 b = 0.45 Constant for PM-10
 W = 40 tons average vehicle weight
 M = 0.2 surface material moisture content, % (default is 0.2 for dry conditions)

$$\frac{1.69 \text{ lb/mi} \times 49975.8 \text{ mi/yr}}{2000 \text{ lb/ton}} = 42.23 \text{ tons/yr potential}$$

Unpaved road emission is controlled with water suppressant (50% control efficiency)

$$42.23 \text{ lb/mi} \times 0.5 \text{ mi/yr} = 21.12 \text{ tons/yr limited}$$

**Appendix A: Emission Calculations
Fugitive Emissions Calculations**

Company Name: Beemsterboer Slag Corporation
Address City IN Zip: 7501 W. Chicago Avenue, Gary, IN 46406
Permit Number: 089-19176-05260
Reviewer: Gaurav Shil/EVP
Date: 11/30/2004

* * aggregate handling * *

The following calculations determine the amount of emissions created by dropping of material, based on 8760 hours of use and AP-42 13.2.4 (Fifth edition, 1/95).

$$\begin{aligned} E_f &= k(0.0032)^* (U/5)^{1.3}/(M/2)^{1.4} \\ &= 0.0005 \text{ lb/ton} \end{aligned}$$

where k = 0.35 particle size multiplier, <10 μ m
U = 10.39 mean wind speed, m/s
M = 7 % material moisture content

$$\begin{aligned} \text{PM/PM}_{10} \text{ Potential to Emit for the aggregate handling} &= (\text{Operating Capacity (tons/hr)} \times \text{EF (lbs/ton)} \times 8760 \text{ hrs/yr}) / 2000 \text{ lbs/ton} \\ &= 1.32 \text{ tons/yr} \\ &= 0.30 \text{ lb/hr} \end{aligned}$$

Compliance with 326 IAC 6-3-2 for Jaw Crusher (EU 2), Cone Crusher (EU 3), Screen (EU 4), Conveyors (EU 5), Wind erosion from storage piles (FE 1) and aggregate handling/dropping (FE 3)

The following calculations determine compliance with 326 IAC 6-3-2 for process weight rates greater than or equal to 30 tons per hour

$$\text{limit} = 71.16 \text{ lb/hr} \quad \{\text{Limit} = (55 \times P^{0.11}) - 40\}$$

The PM emission rates of EU 2, EU 3, EU 4, EU 5, FE 1 and FE 3 are 1.44, 1.44, 5.22, 0.66, 2.65, and 0.3 lb/hr which are less than the allowable PM emission limit of 71.16 lb/hr. Hence, the affected facilities are in compliance with 326 IAC 6-3-2.

**Appendix A: Emission Calculations
Internal Combustion Engines - Diesel Fuel
One (1) Emergency Generator (<250 HP)**

**Company Name: Beemsterboer Slag Corporation
Address City IN Zip: 7501 W. Chicago Avenue, Gary, IN 46406
Permit Number: 089-19176-05260
Reviewer: Gaurav Shi/EVP
Date: 11/30/2004**

Potential Emissions calculated based on 8760 hours per year.

Heat Input Capacity*
mmBTU/hr

0.32

Emission Factor in lb/MMBtu	Pollutant					
	PM	PM10	SO2	NOx	VOC	CO
0.31	0.31	0.31	0.29	4.41	0.4	0.95
Potential Emission in tons/yr	0.43	0.43	0.41	6.18	0.50	1.33

Potential Emissions calculated based on 500 hours per year for standby generator

Heat Input Capacity
MM Btu/hr

0.32

Emission Factor in lb/MMBtu	Pollutant					
	PM	PM10	SO2	NOx	VOC	CO
0.31	0.31	0.31	0.29	4.41	0.4	0.95
Potential Emission in tons/yr	0.02	0.02	0.02	0.35	0.03	0.08

Methodology

Emission Factors are from AP42 (Fifth edition, January 1995), Table 3.3-2

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

Potential Emission (tons/yr) based on 500 operating hours per year = [Heat input rate (MMBtu/hr) x Emission Factor (lb/MMBtu)] * 500 hr/yr / (2,000 lb/ton)

* Heat input capacity for the diesel fired emergency generator is 125 HP.