



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

*Mitchell E. Daniels Jr.*  
Governor

*Thomas W. Easterly*  
Commissioner

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

TO: Interested Parties / Applicant

DATE: January 4, 2012

RE: The Levy Company Inc. / 127 - 31139 - 00124

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

## Notice of Decision: Approval - Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-15-5-3, this permit is effective immediately, unless a petition for stay of effectiveness is filed and granted 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, Suite N 501E, 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.dot12/03/07



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**New Source Construction and Minor Source Operating  
Permit  
OFFICE OF AIR QUALITY**

**The Levy Company - Port of Indiana  
900 George Nelson Drive  
Portage, Indiana 46368**

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

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

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a MSOP under 326 IAC 2-6.1.

Operation Permit No.: M127-31139-00124	
Issued by:  Chrystal A Wagner, Section Chief Permits Branch Office of Air Quality	Issuance Date: January 4, 2012 Expiration Date: January 4, 2017

for

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## SECTION A SOURCE SUMMARY

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

### A.1 General Information [326 IAC 2-5.1-3(c)][326 IAC 2-6.1-4(a)]

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The Permittee owns and operates a stationary slag finishing operation and separation plant.

Source Address:	900 George Nelson Drive, Portage, Indiana 46368
General Source Phone Number:	248-675-0105
SIC Code:	3295
County Location:	Porter
Source Location Status:	Nonattainment for PM <sub>2.5</sub> standard Attainment for all other criteria pollutants
Source Status:	Minor Source Operating Permit Program Minor Source, under PSD and Emission Offset Rules Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

### A.2 Part 70 Source Definition [326 IAC 2-7-1(22)]

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The Levy Company, Inc. formerly operated a stationary blast furnace and basic oxygen furnace slag finishing operation and a separation plant as a contractor of ArcelorMittal Burns Harbor, LLC plant ID 127-00001), located at U.S. Highway 12, Burns Harbor, Indiana. The Levy Company is no longer performing any work for the ArcelorMittal Burns Harbor plant. The Levy Company will continue to operate its screening plant at its property located about two miles from the ArcelorMittal Burns Harbor plant under a new Minor Source Operating Permit.

IDEM, OAQ has determined that the Levy plant is not part of the same major source as the ArcelorMittal Burns Harbor plant. Therefore, based on this evaluation these plants will not be considered one (1) major source, as defined by 326 IAC 2-7-1(22).

### A.3 Emission Units and Pollution Control Equipment Summary

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

- (a) One (1) portable loader with feeder and conveyor/stacker, identified as PL-1 (2 drop points), each drop point has a maximum capacity of 450 tons/hour, approved in 2012 for construction.
- (b) Four (4) portable conveyors, identified as PC-1, each with a maximum capacity of 450 tons per hour, approved in 2012 for construction.
- (c) Two (2) portable stackers, identified as PSK-1, with a maximum capacity of 200 tons per hour each, approved in 2012 for construction.
- (d) One (1) portable screen unit for slag, identified as PS-1, consisting of a feed hopper and conveyor/stacker with a maximum capacity of 250 tons per hour, approved in 2012 for construction.
- (e) One (1) diesel engine, identified as E1, purchased on September 21, 2007, approved in 2012 for construction/installation, with a maximum capacity of 168 Horsepower, utilized to power the screening operations, and is 100% portable.

## **SECTION B GENERAL CONDITIONS**

### **B.1 Definitions [326 IAC 2-1.1-1]**

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Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, 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.2 Revocation of Permits [326 IAC 2-1.1-9(5)]**

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

### **B.3 Affidavit of Construction [326 IAC 2-5.1-3(h)] [326 IAC 2-5.1-4]**

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This document shall also become the approval to operate pursuant to 326 IAC 2-5.1-4 when prior to the start of operation, the following requirements are met:

- (a) The attached Affidavit of Construction shall be submitted to the Office of Air Quality (OAQ), verifying that the emission units were constructed as proposed in the application or the permit. The emission units covered in this permit may begin operating on the date the Affidavit of Construction is postmarked or hand delivered to IDEM if constructed as proposed.
- (b) 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 and an Operation Permit Validation Letter is issued.
- (c) The Permittee shall attach the Operation Permit Validation Letter received from the Office of Air Quality (OAQ) to this permit.

### **B.4 Permit Term [326 IAC 2-6.1-7(a)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]**

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- (a) This permit, M127-31139-00124, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, until the renewal permit has been issued or denied.

### **B.5 Term of Conditions [326 IAC 2-1.1-9.5]**

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Notwithstanding the permit term of a permit to construct, a permit to operate, or a permit modification, any condition established in a permit issued pursuant to a permitting program approved in the state implementation plan shall remain in effect until:

- (a) the condition is modified in a subsequent permit action pursuant to Title I of the Clean Air Act; or
- (b) the emission unit to which the condition pertains permanently ceases operation.

### **B.6 Enforceability**

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

**B.7 Severability**

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The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

**B.8 Property Rights or Exclusive Privilege**

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

**B.9 Duty to Provide Information**

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- (a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.
- (b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

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

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- (a) An annual notification shall be submitted by an authorized individual to the Office of Air Quality stating whether or not the source is in operation and in compliance with the terms and conditions contained in this permit.
- (b) The annual notice shall be submitted in the format attached no later than March 1 of each year to:  
  
Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251
- (c) 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 on or before the date it is due.

**B.11 Preventive Maintenance Plan [326 IAC 1-6-3]**

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- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, including the following information on each facility:
  - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
  - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
  - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

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

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

The Permittee shall implement the PMPs.

- (b) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions.
- (c) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

**B.12 Prior Permits Superseded [326 IAC 2-1.1-9.5]**

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- (a) All terms and conditions of permits established prior to M127-31139-00124 and issued pursuant to permitting programs approved into the state implementation plan have been either:
  - (1) incorporated as originally stated,
  - (2) revised, or
  - (3) deleted.
- (b) All previous registrations and permits are superseded by this permit.

**B.13 Termination of Right to Operate [326 IAC 2-6.1-7(a)]**

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The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least one hundred twenty (120) days prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-6.1-7.

**B.14 Permit Renewal [326 IAC 2-6.1-7]**

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- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-6.1-7. Such information shall be included in the application for each emission unit at this source. The renewal application does require an affirmation that the statements in the application are true and complete by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

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

- (b) A timely renewal application is one that is:
  - (1) Submitted at least one hundred twenty (120) days prior to the date of the expiration of this permit; and
  - (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the

document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

- (c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-6.1 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified, pursuant to 326 IAC 2-6.1-4(b), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

**B.15 Permit Amendment or Revision [326 IAC 2-5.1-3(e)(3)][326 IAC 2-6.1-6]**

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- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to amend or modify this permit.

- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

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

- (c) The Permittee shall notify the OAQ no later than thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]

**B.16 Source Modification Requirement**

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

**B.17 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]**

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Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a 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 the conditions of this permit;
- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor, 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.18 Transfer of Ownership or Operational Control [326 IAC 2-6.1-6]**

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- (a) The Permittee must comply with the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

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

The application which shall be submitted by the Permittee does require an affirmation that the statements in the application are true and complete by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) The Permittee may implement notice-only changes addressed in the request for a notice-only change immediately upon submittal of the request. [326 IAC 2-6.1-6(d)(3)]

**B.19 Annual Fee Payment [326 IAC 2-1.1-7]**

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- (a) The Permittee shall pay annual fees due no later than thirty (30) calendar days of receipt of a bill from IDEM, OAQ,.
- (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.

**B.20 Credible Evidence [326 IAC 1-1-6]**

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For the purpose of submitting compliance certifications or establishing whether or not the Permittee has violated or is in violation of any condition of this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether the Permittee would have been in compliance with the condition of this permit if the appropriate performance or compliance test or procedure had been performed.

## SECTION C SOURCE OPERATION CONDITIONS

Entire Source

### Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

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

Pursuant to 326 IAC 6-3-2(e)(2), particulate emissions from any process not exempt under 326 IAC 6-3-1(b) or (c) which has a maximum process weight rate less than 100 pounds per hour and the methods in 326 IAC 6-3-2(b) through (d) do not apply shall not exceed 0.551 pounds per hour.

C.2 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, the fact that continuance of this permit is not consistent with purposes of this article.

C.3 Opacity [326 IAC 5-1]

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

- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.4 Open Burning [326 IAC 4-1] [IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1.

C.5 Incineration [326 IAC 4-2] [326 IAC 9-1-2]

The Permittee shall not operate an incinerator except as provided in 326 IAC 4-2 or in this permit. The Permittee shall not operate a refuse incinerator or refuse burning equipment except as provided in 326 IAC 9-1-2 or in this permit.

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

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

**C.7 Fugitive Particulate Matter Emission Limitations [326 IAC 6-5]**

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Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the attached plan as in Attachment A.

**C.8 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]**

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

(b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:

(1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or

(2) If there is a change in the following:

(A) Asbestos removal or demolition start date;

(B) Removal or demolition contractor; or

(C) Waste disposal site.

(c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).

(d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

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

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project.

(e) Procedures for Asbestos Emission Control

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

- (f) **Demolition and Renovation**  
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) **Indiana Licensed Asbestos Inspector**  
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Licensed Asbestos inspector is not federally enforceable.

### **Testing Requirements [326 IAC 2-6.1-5(a)(2)]**

#### **C.9 Performance Testing [326 IAC 3-6]**

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- (a) For performance testing required by this permit, a test protocol, except as provided elsewhere in this permit, shall be submitted to:  
  
Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251  
  
no later than thirty-five (35) days prior to the intended test date.
- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date.
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

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

#### **C.10 Compliance Requirements [326 IAC 2-1.1-11]**

---

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

### **Compliance Monitoring Requirements [326 IAC 2-6.1-5(a)(2)]**

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

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Compliance with applicable requirements shall be documented as required by this permit. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. All monitoring and record keeping requirements not already legally required shall be implemented when operation begins.

#### **C.12 Instrument Specifications [326 IAC 2-1.1-11]**

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- (a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale.

- (b) The Permittee may request that the IDEM, OAQ approve the use of an instrument that does not meet the above specifications provided the Permittee can demonstrate that an alternative instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.

### **Corrective Actions and Response Steps**

#### **C.13 Response to Excursions or Exceedances**

---

Upon detecting an excursion where a response step is required by the D Section or an exceedance of a limitation in this permit:

- (a) The Permittee shall take reasonable response steps to restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing excess emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction. The response may include, but is not limited to, the following:
  - (1) initial inspection and evaluation;
  - (2) recording that operations returned or are returning to normal without operator action (such as through response by a computerized distribution control system); or
  - (3) any necessary follow-up actions to return operation to normal or usual manner of operation.
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
  - (1) monitoring results;
  - (2) review of operation and maintenance procedures and records; and/or
  - (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall record the reasonable response steps taken.

#### **C.14 Actions Related to Noncompliance Demonstrated by a Stack Test**

---

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall submit a description of its response actions to IDEM, OAQ, no later than seventy-five (75) days after the date of the test.
- (b) A retest to demonstrate compliance shall be performed no later than one hundred eighty (180) days after the date of the test. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred eighty (180) days is not practicable, IDEM, OAQ may extend the retesting deadline
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

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

### C.15 Malfunctions Report [326 IAC 1-6-2]

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

- (a) A record of all malfunctions, including startups or shutdowns of any facility or emission control equipment, which result in violations of applicable air pollution control regulations or applicable emission limitations shall be kept and retained for a period of three (3) years and shall be made available to the Indiana Department of Environmental Management (IDEM), Office of Air 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) 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.16 Emission Statement [326 IAC 2-6]

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Pursuant to 326 IAC 2-6-3(a)(1), the Permittee shall submit an emission statement by July 1 following a calendar year when the source emits oxides of nitrogen or volatile organic compounds into the ambient air equal to or greater than twenty-five (25) tons. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4.

The statement must be submitted to:

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

### C.17 General Record Keeping Requirements [326 IAC 2-6.1-5]

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

C.18 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [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 and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

- (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 on or before the date it is due.
- (c) The first report shall cover the period commencing on the date of issuance of this permit or the date of initial start-up, whichever is later, 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.

**SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS**

<b>Emissions Unit Description:</b>	
(a)	One (1) portable loader with feeder and conveyor/stacker, identified as PL-1 (2 drop points), each drop point has a maximum capacity of 450 tons/hour, approved in 2012 for construction.
(b)	Four (4) portable conveyors, identified as PC-1, each with a maximum capacity of 450 tons per hour, approved in 2012 for construction.
(c)	Two (2) portable stackers, identified as PSK-1, with a maximum capacity of 200 tons per hour each, approved in 2012 for construction.
(d)	One (1) portable screen unit for slag, identified as PS-1, consisting of a feed hopper and conveyor/stacker with a maximum capacity of 250 tons per hour, approved in 2012 for construction.
(e)	One (1) diesel engine, identified as E1, purchased on September 21, 2007, approved in 2012 for construction/installation, with a maximum capacity of 168 Horsepower, utilized to power the screening operations, and is 100% portable.
(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)	

**Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]**

**D.1.1 Particulate Matter (PM) [326 IAC 6-3]**

- (a) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the loaders, feeders, screens, and conveyors/stackers (identified as PL-1, PC-1, PSK-1, PS-1) shall not exceed the pounds per hour limits as shown in the following table:

Emission Unit ID	Particulate Emission Rate			Potential Particulate Emission Rate (lb/hr)
	Components	Process Weight Rate (tons/hr)	Allowable Particulate Emission Rate (lb/hr)	
PL-1	feeder	450	67.7	3.96
	stacker/conveyor	450	67.7	1.35
PSK-1	stacker 1	200	58.5	0.6
	stacker 2	200	58.5	0.6
PC-1	Conveyor 1	450	67.7	1.35
	Conveyor 2	450	67.7	1.35
	Conveyor 3	450	67.7	1.35
	Conveyor 4	450	67.7	1.35
PS-1	feeder	250	60.9	2.2
	screen	250	60.9	6.25
	conveyor/stacker	250	60.9	0.75

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

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

- (b) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), when the process weight rate exceeds two hundred (200) tons per hour, the allowable emissions may exceed that shown in the table in 326 IAC 6-3-2(e) provided the concentration of particulate in the discharge gases to the atmosphere is less than one tenth (0.10) pound per one thousand (1,000) pounds of gases.

#### D.1.2 Preventive Maintenance Plan

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A Preventive Maintenance Plan is required for these facilities. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

#### D.1.3 Nonroad Engines [326 IAC 12] [40 CFR 60, Subpart IIII] [40 CFR 60, Subpart JJJJ] [326 IAC 20-82] [40 CFR 63, Subpart ZZZZ]

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In order to render the requirements of the Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (40 CFR Part 60, Subpart IIII), New Source Performance Standards for Stationary Spark Ignition Internal Combustion Engines, (40 CFR 60, Subpart JJJJ) which are incorporated by reference as 326 IAC 12, and the National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (40 CFR 63, Subpart ZZZZ), which are incorporated by reference as 326 IAC 20-82, not applicable, and to ensure that the one (1) diesel engine is a nonroad engine, as defined at 40 CFR 1068.30 (excluding paragraph (2)(ii) of that definition), the Permittee shall comply with the following:

- (a) The one (1) diesel engine, identified as E1 shall remain at a location for a period not to exceed twelve (12) consecutive months.
- (b) Any unit that replaces the one (1) diesel engine, identified as E1 at a location and that is intended to perform the same or similar function as the engine replaced will be included in calculating the consecutive time period.
- (c) For the purposes of this condition and pursuant to 40 CFR 1069.30 *Nonroad Engine* (2)(iii), a location is any single site at a building, structure, facility, or installation.

Compliance with these limits shall render the requirements of the Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (40 CFR Part 60, Subpart IIII), New Source Performance Standards for Stationary Spark Ignition Internal Combustion Engines, (40 CFR 60, Subpart JJJJ), and the National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (40 CFR 63, Subpart ZZZZ) not applicable.

### Compliance Determination Requirements

#### D.1.4 Testing Requirements [326 IAC 2-1.1-11]

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In order to verify that the moisture content of the aggregate materials being processed at this source is at a minimum of 0.21 percent, the Permittee shall conduct a one-time moisture content analysis of each aggregate material type to be processed by the screening and conveying equipment. Testing shall be performed not later than one hundred eighty (180) days of permit issuance. This testing shall be conducted utilizing methods as approved by the Commissioner. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C – Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition.

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

### **D.1.5 Record Keeping Requirements**

---

- (a) The Permittee shall maintain records of the dates of installation and removal of the one (1) diesel engine, identified as E1 as it is installed and removed.
  
- (b) Section C - General Record Keeping Requirements, contains the Permittee's obligations with regard to the records required by this condition.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE AND ENFORCEMENT BRANCH**

**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).

<b>Company Name:</b>	The Levy Company - Port of Indiana
<b>Address:</b>	900 George Nelson Drive
<b>City:</b>	Portage, Indiana 46368
<b>Phone #:</b>	248-675-0105
<b>MSOP #:</b>	M127-31139-00124

I hereby certify that The Levy Company - Port of Indiana is  still in operation.  
 no longer in operation.  
I hereby certify that The Levy Company - Port of Indiana is  in compliance with the requirements of MSOP M127-31139-00124.  
 not in compliance with the requirements of MSOP M127-31139-00124.

<b>Authorized Individual (typed):</b>
<b>Title:</b>
<b>Signature:</b>
<b>Date:</b>

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.

<b>Noncompliance:</b>

**MALFUNCTION REPORT**  
**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT**  
**OFFICE OF AIR QUALITY**  
**COMPLIANCE AND ENFORCEMENT BRANCH**  
**FAX NUMBER: (317) 233-6865**

**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 ?\_\_\_\_\_, 100 TONS/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 PERMIT 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: \_\_\_\_\_ PHONE NO. (    ) \_\_\_\_\_  
LOCATION: (CITY AND COUNTY) \_\_\_\_\_  
PERMIT NO. \_\_\_\_\_ AFS PLANT ID: \_\_\_\_\_ AFS POINT ID: \_\_\_\_\_ INSP: \_\_\_\_\_  
CONTROL/PROCESS DEVICE WHICH MALFUNCTIONED AND REASON: \_\_\_\_\_

DATE/TIME MALFUNCTION STARTED: \_\_\_\_/\_\_\_\_/20\_\_\_\_    \_\_\_\_\_ AM / PM  
ESTIMATED HOURS OF OPERATION WITH MALFUNCTION CONDITION: \_\_\_\_\_

DATE/TIME CONTROL EQUIPMENT BACK-IN SERVICE \_\_\_\_/\_\_\_\_/20\_\_\_\_    \_\_\_\_\_ 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:

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Mail to: Permit Administration and Support Section  
Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

The Levy Company - Port of Indiana  
900 George Nelson Drive  
Portage, Indiana 46368

Affidavit of Construction

I, \_\_\_\_\_, being duly sworn upon my oath, depose and say:  
(Name of the Authorized Representative)

1. I live in \_\_\_\_\_ County, Indiana and being of sound mind and over twenty-one (21) years of age, I am competent to give this affidavit.
2. I hold the position of \_\_\_\_\_ for \_\_\_\_\_  
(Title) (Company Name)
3. By virtue of my position with \_\_\_\_\_, I have personal  
(Company Name)  
knowledge of the representations contained in this affidavit and am authorized to make these representations on behalf of \_\_\_\_\_  
(Company Name)
4. I hereby certify that The Levy Company - Port of Indiana 900 George Nelson Drive, Portage, Indiana 46368, completed construction of the blast furnace and basic oxygen furnace slag finishing operation and separation plant on \_\_\_\_\_ in conformity with the requirements and intent of the construction permit application received by the Office of Air Quality on November 14, 2011 and as permitted pursuant to New Source Construction Permit and Minor Source Operating Permit No. M127-31139-00124, Plant ID No. 127-00124 issued on \_\_\_\_\_.
5. **Permittee, please cross out the following statement if it does not apply:** Additional (operations/facilities) were constructed/substituted as described in the attachment to this document and were not made in accordance with the construction permit.

Further Affiant said not.

I affirm under penalties of perjury that the representations contained in this affidavit are true, to the best of my information and belief.

Signature \_\_\_\_\_  
Date \_\_\_\_\_

STATE OF INDIANA)  
)SS

COUNTY OF \_\_\_\_\_ )

Subscribed and sworn to me, a notary public in and for \_\_\_\_\_ County and State of Indiana  
on this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_. My Commission expires: \_\_\_\_\_.

Signature \_\_\_\_\_  
Name \_\_\_\_\_ (typed or printed)

**THE LEVY COMPANY  
PORT OF INDIANA**

**FUGITIVE DUST CONTROL PLAN**

**REVISION 0**

**November 22, 2011**

# Fugitive Dust Control Plan

The Levy Company  
Port of Indiana

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## **Fugitive Dust Control Plan**

The Levy Company  
Port of Indiana

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### **Facility Description**

The Levy Company (“Levy”) owns and operates a small slag material screening operation located within the Port of Indiana in Portage, Indiana. Aggregates are produced from the various slag materials received from local integrated steel-making facilities.

### **Roadways and Fugitive Roadway PM<sub>10</sub> Emissions**

Specified roadways cannot be defined at this facility because continuously moving stockpiles create roving roadways. Road designations change with the pile formations. All roadways within the Levy boundaries are under the control of Levy and average approximately 30 feet wide with varying lengths. Figure 1 shows the general site layout. Trucks are utilized for transportation of materials in and out of the facility. Front end loaders are utilized for feeding the material process unit. The process units are portable and are located adjacent to or near the pile that is being handled so roadway travel onsite is very low. Appendix A provides a sample of the potential roadway PM<sub>10</sub> emission calculations for the facility.

### **Storage Piles**

Raw material and product piles are stored in various locations on the facility site and product pile locations will move within a general area throughout the year. Figure 1 shows the general site layout. Front end loaders and stacking conveyors are used to load onto and load out of the storage piles. The moisture content of the materials stored in piles can range from 2% to 3% and greatly depends on atmospheric precipitation throughout the year. Stockpiles are wetted with water or chemical suppressants when needed.

### **Material Process Flow**

In the process, material is moved through a series including feeder, screen, various conveyors and stackers. Wet suppression control is utilized at strategic points in the process which can provide up to 90% efficiency where needed to control dust.

## **Fugitive Dust Control Plan**

The Levy Company  
Port of Indiana

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### **Control Measures and Practices**

Water (or chemical) application is used where and when needed to control fugitive dust on process equipment, roadways and piles. Water/chemical application may be suspended based on weather events as follows:

- during periods of rainfall (0.10 inches or more)
- when temperatures are at or below freezing
- when ice or snow cover is present.

The phrase “weather permitting” used in the following paragraphs herein designates the suspension of control application during the weather events listed above.

#### I. Site Roadways / Plant Yard

Dust on unpaved roads is controlled by applications of water or chemical suppressant during operating hours, weather permitting. Paved roads are treated with a water truck during operating hours, weather permitting. Applications of dust control material are done as often as necessary.

#### II. Process Operations

To help minimize dust emissions, the drop distance at each conveyor transfer point in the plant is set at the minimum distance in which the equipment can operate effectively. Wet suppression methods are utilized, weather permitting, and located strategically throughout the plant to control dust emissions. During water application, caution must be taken to avoid saturating the material which results in blinding the screens and producing an off-spec material.

#### III. Storage Piles

To reduce potential dust emissions, stockpiling is performed at minimum drop distances, to the extent practicable. Materials are stored in various locations on the facility site and product pile locations will move within a general area throughout the year. Figure 1 shows the general site layout. Front end loaders and stacking conveyors may be used to

## **Fugitive Dust Control Plan**

The Levy Company  
Port of Indiana

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load onto and load out of the storage piles. The moisture content of the slag stored on site can range greatly and depends on atmospheric precipitation throughout the year.

### **IV. Loading and Transfer; Trucks and Front-End Loaders**

Trucks are loaded in a manner to reduce or prevent materials from dropping, blowing or otherwise escaping. The drop distance is minimized to reduce dust during loading operations.

### **Documentation and Record Keeping**

Wet suppression records for roadways are maintained in accordance with 326 IAC 6-1-11.1 using a documentation log. A sample of this log is located in Appendix B, however, the most recent version should be confirmed with onsite management. Records are retained for a minimum of five (5) years.



Approximate Boundary of Fugitive Dust Control The Levy Company

Figure 1 - General Site Layout  
The Levy Company - Port of Indiana  
Fugitive Dust Control Plan

**ST Environmental LLC**

209 S Calumet Rd, Ste 5  
Chesterton, IN 46304  
Phone: (219) 728-6312  
Fax: (855) 728-6312

DRAWN:	SSG
CHECKED:	OTHER
PROJECT:	LEVY PORT

SCALE: NOT TO SCALE

DATE: 11/22/2011

FILENAME:  
FDCP Map

Company Name: The Levy Company - Port of Indiana  
 Address, City IN Zip: 900 George Nelson Drive, Portage, IN 46368

APPENDIX A - FUGITIVE DUST CONTROL PLAN  
 SAMPLE ROADWAY PTE CALCULATIONS

**Potential to Emit - FROM UNPAVED ROADWAYS**

PTE material throughput (tons): 6,132,000 tons (based on max feed capacity)

Vehicle	Production (tons/yr)	Product Weight (tons/RT)	Round Trips/yr	Avg miles per round trip	VMT/yr
Trucks and haulers	6,132,000	50	122,640	0.05	6,132
Front-end loaders	6,132,000	15	408,800	0.02	8,176

Vehicle	Mean Weight (W) (tons)	PM Emission Factor <sup>2</sup> (lb/VMT)	PM2.5 Emission Factor <sup>2</sup> (lb/VMT)	PM10 Emission Factor <sup>2</sup> (lb/VMT)	VMT/yr	UNCONTROLLED PTE			CONTROLLED PTE		
						PM Emissions (TPY)	PM10 Emissions (TPY)	PM2.5 Emissions (TPY)	PM Emissions (TPY)	PM10 Emissions (TPY)	PM2.5 Emissions (TPY)
Trucks and haulers	64	11.96	0.32	3.19	6,132	36.65	9.77	0.00584	5.4981	1.4652	0.00088
Front-end loaders	31	8.63	0.23	2.30	8,176	35.27	9.40	0.00405	5.2904	1.4099	0.00061
						<b>71.92</b>	<b>19.17</b>	<b>0.01</b>	<b>10.79</b>	<b>2.88</b>	<b>0.00148</b>

85% control efficiency

\*Based on a control efficiency in the AP-42 from the periodic application of water and/or other dust suppressants.

Reference AP-42, 13.2.2, 11/2006  
 $E = k(s/12)^a \times (W/3)^b$

Variable	PM10 Value	Units
k (lb/VMT)	1.5	Table 13.2.2-2
a	0.9	Table 13.2.2-2
b	0.45	Table 13.2.2-2
W	see above	tons
M	-	% (default)
s	6	% (Table 13.2.2-1)(iron/steel mills)

Variable	PM Value	Units
k (lb/VMT)	4.9	Table 13.2.2-2
a	0.7	Table 13.2.2-2
b	0.45	Table 13.2.2-2
W	see above	tons
M	-	% (default)
s	6	% (Table 13.2.2-1)(iron/steel mills)

Variable	PM2.5 Value	Units
k (lb/VMT)	0.15	Table 13.2.2-2
a	0.9	Table 13.2.2-2
b	0.45	Table 13.2.2-2
W	see above	tons
M	-	% (default)
s	6	% (Table 13.2.2-1)(iron/steel mills)

**The Levy Company**  
**Fugitive Dust Control Documentation Log**

Fill in data for each road dust control application event (as multiple application events may occur in a day).

Week Beginning: \_\_\_\_\_

	Mon	Tues	Wed	Thurs	Fri	Sat	Sun
All unpaved road areas							
Number of Applications							
Time of each application							
Width of each application							
Type(s) of application	<input type="checkbox"/> Water <input type="checkbox"/> Chemical						
Estimated quantity of each application							
If chemical used, concentration of each application							
<b>Reason for no application*</b>	<input type="checkbox"/> Frozen <input type="checkbox"/> Rain <input type="checkbox"/> Snow <input type="checkbox"/> No activity	<input type="checkbox"/> Frozen <input type="checkbox"/> Rain <input type="checkbox"/> Snow <input type="checkbox"/> No activity	<input type="checkbox"/> Frozen <input type="checkbox"/> Rain <input type="checkbox"/> Snow <input type="checkbox"/> No activity	<input type="checkbox"/> Frozen <input type="checkbox"/> Rain <input type="checkbox"/> Snow <input type="checkbox"/> No activity	<input type="checkbox"/> Frozen <input type="checkbox"/> Rain <input type="checkbox"/> Snow <input type="checkbox"/> No activity	<input type="checkbox"/> Frozen <input type="checkbox"/> Rain <input type="checkbox"/> Snow <input type="checkbox"/> No activity	<input type="checkbox"/> Frozen <input type="checkbox"/> Rain <input type="checkbox"/> Snow <input type="checkbox"/> No activity

\*Guidelines for No Application

- Frozen = Temperature  $\geq 32^{\circ}\text{F}$ , such that water spraying is prohibited by freezing conditions.
- Rain = Rainfall  $\geq 0.1$  inches, such that roads are adequately wetted.
- Snow = Ice and/or Snow Cover Present, such that roads are adequately wetted.
- No Activity = no work activity and roadways are not creating dust.

Application may be suspended if any of these weather events are present.  
 However, this documentation must be retained.

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

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

<b>Source Name:</b>	The Levy Company - Port of Indiana
<b>Source Location:</b>	900 George Nelson Drive, Portage, IN 46368
<b>County:</b>	Porter
<b>SIC Code:</b>	3295
<b>Minor Source Operation Permit No.:</b>	M127-31139-00124
<b>Permit Reviewer:</b>	APT

On December 1, 2011, the Office of Air Quality (OAQ) had a notice published in the Chesterton Tribune in Chesterton, Indiana stating that The Levy Company - Port of Indiana had applied for a Minor Source Operating Permit (MSOP), for a stationary slag finishing operation. The notice also stated that the 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 renewal should be issued as proposed.

Changes to the permit are noted as follows: ~~struck~~ language has been deleted; **bold** language has been added. If necessary, the Table of Contents will be modified to reflect these changes.

Necessary changes will be noted in this addendum only, as no changes will be made to the TSD.

**Permit M127-31139-00124**

The IDEM, OAQ has made the following changes to the permit during the course of the public comment period for this Minor Source Operating Permit:

**Change No. 1:** The permit was on public notice through the end of the year of 2011, therefore, the emission unit descriptions have been updated to show that this permitting approval is effective in 2012 as follows:

**A.3 Emission Units and Pollution Control Equipment Summary**

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

- (a) One (1) portable loader with feeder and conveyor/stacker, identified as PL-1 (2 drop points), each drop point has a maximum capacity of 450 tons/hour, approved in 2014~~2~~ for construction.
- (b) Four (4) portable conveyors, identified as PC-1, each with a maximum capacity of 450 tons per hour, approved in 2014~~2~~ for construction.
- (c) Two (2) portable stackers, identified as PSK-1, with a maximum capacity of 200 tons per hour each, approved in 2014~~2~~ for construction.
- (d) One (1) portable screen unit for slag, identified as PS-1, consisting of a feed hopper and conveyor/stacker with a maximum capacity of 250 tons per hour, approved in 2014~~2~~ for construction.

- (e) One (1) diesel engine, identified as E1, purchased on September 21, 2007, approved in 2014~~2~~ for construction/installation, with a maximum capacity of 168 Horsepower, utilized to power the screening operations, and is 100% portable.

\* \* \*

## SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

### Emissions Unit Description:

- (a) One (1) portable loader with feeder and conveyor/stacker, identified as PL-1 (2 drop points), each drop point has a maximum capacity of 450 tons/hour, approved in 2014~~2~~ for construction.
- (b) Four (4) portable conveyors, identified as PC-1, each with a maximum capacity of 450 tons per hour, approved in 2014~~2~~ for construction.
- (c) Two (2) portable stackers, identified as PSK-1, with a maximum capacity of 200 tons per hour each, approved in 2014~~2~~ for construction.
- (d) One (1) portable screen unit for slag, identified as PS-1, consisting of a feed hopper and conveyor/stacker with a maximum capacity of 250 tons per hour, approved in 2014~~2~~ for construction.
- (e) One (1) diesel engine, identified as E1, purchased on September 21, 2007, approved in 2014~~2~~ for construction/installation, with a maximum capacity of 168 Horsepower, utilized to power the screening operations, and is 100% portable.

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

**Change No. 2:** During the course of the public notice period, it was discovered that the emission limitations for particulate matter pursuant to 326 IAC 6-3-2 Particulate Emission Limitations for Manufacturing Processes) were calculated incorrectly. The corrected limits have been incorporated into the permit as follows:

### Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

#### D.1.1 Particulate Matter (PM) [326 IAC 6-3]

- (a) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the loaders, feeders, screens, and conveyors/stackers (identified as PL-1, PC-1, PSK-1, PS-1) shall not exceed the pounds per hour limits as shown in the following table:

Emission Unit ID	Components	Particulate Emission Rate		Potential Particulate Emission Rate (lb/hr)
		Process Weight Rate (lbs <del>tons</del> /hr)	Allowable Particulate Emission Rate (lb/hr)	
PL-1	feeder	<del>900,000</del> <b>450</b>	<del>208.5</del> <b>67.7</b>	3.96
	stacker/conveyor	<del>900,000</del> <b>450</b>	<del>208.5</del> <b>67.7</b>	1.35
PSK-1	stacker 1	<del>400,000</del> <b>200</b>	<del>187.3</del> <b>58.5</b>	0.6
	stacker 2	<del>400,000</del> <b>200</b>	<del>187.3</del> <b>58.5</b>	0.6
PC-1	Conveyor 1	<del>900,000</del> <b>450</b>	<del>208.5</del> <b>67.7</b>	1.35
	Conveyor 2	<del>900,000</del> <b>450</b>	<del>208.5</del> <b>67.7</b>	1.35
	Conveyor 3	<del>900,000</del> <b>450</b>	<del>208.5</del> <b>67.7</b>	1.35
	Conveyor 4	<del>900,000</del> <b>450</b>	<del>208.5</del> <b>67.7</b>	1.35
PS-1	feeder	<del>500,000</del> <b>250</b>	<del>192.9</del> <b>60.9</b>	2.2
	screen	<del>500,000</del> <b>250</b>	<del>192.9</del> <b>60.9</b>	6.25
	conveyor/stacker	<del>500,000</del> <b>250</b>	<del>192.9</del> <b>60.9</b>	0.75

# Indiana Department of Environmental Management Office of Air Quality

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

### Source Description and Location

**Source Name:** The Levy Company - Port of Indiana  
**Source Location:** 900 George Nelson Drive, Portage, IN 46368  
**County:** Porter  
**SIC Code:** 3295  
**Minor Source Operation Permit No.:** M127-31139-00124  
**Permit Reviewer:** APT

On November 14, 2011, the Office of Air Quality (OAQ) received an application from The Levy Company - Port of Indiana, related to the construction and operation of a new stationary slag finishing operation and separation plant.

### Source Definition

The Levy Company, Inc., located at 900 George Nelson Drive, Portage, Indiana, formerly operated a stationary blast furnace and basic oxygen furnace slag finishing operation and a separation plant as a contractor of ArcelorMittal Burns Harbor, LLC (plant ID 127-00001), located at U.S. Highway 12, Burns Harbor, Indiana. The Levy Company is no longer performing any work for the ArcelorMittal Burns Harbor plant. The Levy Company will continue to operate its screening plant at its property located about two miles from the ArcelorMittal Burns Harbor plant under a new Minor Source Operating Permit. IDEM, OAQ had previously determined that the Levy and ArcelorMittal plants were one major source. Since their relationship has changed significantly, IDEM, OAQ has reexamined whether the Levy plant is part of the same major source with the ArcelorMittal Burns Harbor plant. The term "major source" is defined at 326 IAC 2-7-1(22). In order for two or more plants to be considered one major source, they must meet all three of the following criteria:

- (1) the plants must be under common ownership or common control;
- (2) the plants must have the same two-digit Standard Industrial Classification (SIC) Code or one must serve as a support facility for the other; and,
- (3) the plants must be located on contiguous or adjacent properties.

The Levy plant will not provide any raw material or perform any service or other work for the ArcelorMittal Burns Harbor plant. Each plant is free to contract with third parties, neither plant can assume control of the other and neither is required to submit periodic reports to the other. The two plants do not have the same two-digit SIC Code. There are no materials that will be transferred between the plants. The plants will have separate managers and separate production staff. The production process itself will not be split between the plants. The plants will not be close enough to enable them to operate as one source. The plants are therefore not adjacent or contiguous.

Since the plants do not meet any of the three parts of the major source definition, IDEM, OAQ has determined that the Levy plant is not part of the same major source as the ArcelorMittal Burns Harbor plant. Therefore, based on this evaluation these plants will not be considered one (1) source, as defined by 326 IAC 2-7-1(22). (See Appendix B to this TSD for the entire source determination)

### Existing Approvals

There have been no previous approvals issued to this source.

**County Attainment Status**

The source is located in Porter County.

Pollutant	Designation
SO <sub>2</sub>	Cannot be classified for the area bounded on the north by Lake Michigan; on the west by the Lake County and Porter County line; on the south by I-80 and I-90; and on the east by the LaPorte County and Porter County line. The remainder of Porter County is better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O <sub>3</sub>	Attainment effective May 11, 2010, for the 8-hour ozone standard. <sup>1</sup>
PM <sub>10</sub>	Unclassifiable effective November 15, 1990.
NO <sub>2</sub>	Cannot be classified or better than national standards.
Pb	Not designated.
<sup>1</sup> Nonattainment Severe 17 effective November 15, 1990, for the Chicago-Gary-Lake County area including Porter County, for the 1-hour standard which was revoked effective June 15, 2005. Basic nonattainment designation effective federally April 5, 2005, for PM <sub>2.5</sub> .	

- (a) **Ozone Standards**  
 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. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to ozone. Porter County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (b) **PM<sub>2.5</sub>**  
 U.S. EPA, in the Federal Register Notice 70 FR 943 dated January 5, 2005, has designated Porter County as nonattainment for PM<sub>2.5</sub>. On March 7, 2005 the Indiana Attorney General's Office, on behalf of IDEM, filed a lawsuit with the Court of Appeals for the District of Columbia Circuit challenging U.S. EPA's designation of nonattainment areas without sufficient data. However, in order to ensure that sources are not potentially liable for a violation of the Clean Air Act, the OAQ is following the U.S. EPA's New Source Review Rule for PM<sub>2.5</sub> promulgated on May 8, 2008. These rules became effective on July 15, 2008. Therefore, direct PM<sub>2.5</sub> and SO<sub>2</sub> emissions were reviewed pursuant to the requirements of Nonattainment New Source Review, 326 IAC 2-1.1-5. See the State Rule Applicability – Entire Source section.
- (c) **Other Criteria Pollutants**  
 Porter County has been classified as attainment or unclassifiable in Indiana for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

**Fugitive Emissions**

- (a) The fugitive emissions of criteria pollutants and hazardous air pollutants are counted toward the determination of 326 IAC 2-6.1 (Minor Source Operating Permits) applicability.
- (b) Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2, 326 IAC 2-3, or 326 IAC 2-7, and there is no applicable New Source Performance Standard that was in effect on August 7, 1980, fugitive emissions are not counted toward the determination of PSD, Emission Offset, and Part 70 Permit applicability.

### Background and Description of New Source Construction

The Office of Air Quality (OAQ) has reviewed an application, submitted by The Levy Company - Port of Indiana on November 14, 2011, relating to the operation of a stationary slag finishing operation and separation plant.

The following is a list of the emission units and pollution control devices:

- (a) One (1) portable loader with feeder and conveyor/stacker, identified as PL-1 (2 drop points), each drop point has a maximum capacity of 450 tons/hour, approved in 2011 for construction.
- (b) Four (4) portable conveyors, identified as PC-1, each with a maximum capacity of 450 tons per hour, approved in 2011 for construction.
- (c) Two (2) portable stackers, identified as PSK-1, with a maximum capacity of 200 tons per hour each, approved in 2011 for construction.
- (d) One (1) portable screen unit for slag, identified as PS-1, consisting of a feed hopper and conveyor/stacker with a maximum capacity of 250 tons per hour, approved in 2011 for construction.
- (e) One (1) diesel engine, identified as E1, purchased on September 21, 2007, approved in 2011 for construction/installation, with a maximum capacity of 168 Horsepower, utilized to power the screening operations, and is 100% portable.

### Enforcement Issues

There are no pending enforcement actions related to this source.

### Emission Calculations

See Appendix A of this TSD for detailed emission calculations.

### Permit Level Determination – MSOP

The following table reflects the unlimited potential to emit (PTE) of the entire source before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Pollutant	Potential To Emit (tons/year)
PM	193.41
PM <sub>10</sub> <sup>(1)</sup>	70.46
PM <sub>2.5</sub>	34.01
SO <sub>2</sub>	1.51
NO <sub>x</sub>	22.81
VOC	1.82
CO	4.92
CO <sub>2</sub> e	856.68
Single HAP (Formaldehyde)	0.02
Total HAPs	0.05

(1) Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM<sub>10</sub>), not particulate matter

(PM), is considered as a "regulated air pollutant".

- (a) The potential to emit (PTE) (as defined in 326 IAC 2-1.1-1) of  $PM_{10}$ ,  $PM_{2.5}$ , are each less than one hundred (100) tons per year, but greater than or equal to twenty-five (25) tons per year. The PTE of all other regulated criteria pollutants are less than twenty-five (25) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-6.1. A Minor Source Operating Permit (MSOP) will be issued.
- (b) The potential to emit (PTE) (as defined in 326 IAC 2-1.1-1) of any single HAP is less than ten (10) tons per year and the PTE of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA) and not subject to the provisions of 326 IAC 2-7.
- (c) The potential to emit (PTE) (as defined in 326 IAC 2-1.1-1) of greenhouse gases (GHG) is less than the Title V threshold of one hundred thousand (100,000) tons of  $CO_2$  equivalent ( $CO_2e$ ) emissions per year. Therefore, the source is not subject to the provisions of 326 IAC 2-7.

#### Federal Rule Applicability Determination

##### New Source Performance Standards (NSPS)

- (a) The requirements of the New Source Performance Standard for Metallic Mineral Processing Plants, 40 CFR 60, Subpart LL (326 IAC 12), are not included in the permit, since this operation is not considered a metallic mineral processing plant as defined by 60.381. This operation will not produce metallic mineral concentrates from ore obtained from a mine.
- (b) The requirements of the New Source Performance Standard for Stationary Compression Ignition Internal Combustion Engines, 40 CFR 60, Subpart IIII (326 IAC 12), are not included in the permit for the one (1) diesel engine, identified as E1, since by itself or in or on a piece of equipment, the diesel engine is portable or transportable, meaning designed to be and capable of being carried or moved from one location to another. This engine meets the definition of a nonroad engine, as defined in 40 CFR 1068.30 (excluding paragraph (2)(ii) of that definition) and is, therefore, not considered a stationary internal combustion engine as defined in 40 CFR 60.4248.
- (c) The requirements of the New Source Performance Standard for Stationary Spark Ignition Internal Combustion Engines, 40 CFR 60, Subpart JJJJ (326 IAC 12), are not included in the permit for the one (1) diesel engine, identified as E1, since by itself or in or on a piece of equipment, the diesel engine is portable or transportable, meaning designed to be and capable of being carried or moved from one location to another. This engine meets the definition of a nonroad engine, as defined in 40 CFR 1068.30 (excluding paragraph (2)(ii) of that definition) and is, therefore, not considered a stationary internal combustion engine as defined in 40 CFR 60.4248.

Pursuant to 40 CFR 60.4219, stationary internal combustion engines (ICE) differ from mobile ICE in that a stationary internal combustion engine is not a nonroad engine as defined at 40 CFR 1068.30 (excluding paragraph (2)(ii) of that definition). 40 CFR 1068.30 defines a non-road engine as any internal combustion engine that, by itself or in or on a piece of equipment, is portable or transportable, meaning designed to be and capable of being carried or moved from one location to another. Indicia of transportability include, but are not limited to, wheels, skids, carrying handles, dolly, trailer, or platform.

However, 40 CFR 1068.30 also requires that a non-road engine, as defined in the previous paragraph, not remain at a site for more than twelve (12) consecutive months. Any engine (or engines) that replace the engine at a location and that is intended to perform the same or similar function as the engine replaced will be included in calculating the consecutive time period. Additionally, 40 CFR 1068.30 defines a location as any single site at a building, structure, facility, or installation.

Therefore, provided that one (1) diesel engine, identified as E1 does not remain at one site for a period greater than twelve (12) months each shall meet the definition of nonroad engines and not be subject to the requirements of 40 CFR 60, Subpart IIII or Subpart JJJJ, or 40 CFR 63.6580, Subpart ZZZZ (discussed in NESHAP Section of this document).

The source has chosen to accept the following limits to ensure the engine meets the definition of nonroad engine:

- (a) The one (1) diesel engine, identified as E1 shall remain at a location for a period not to exceed twelve (12) consecutive months.
  - (b) Any unit that replaces the one (1) diesel engine, identified as E1 at a location and that is intended to perform the same or similar function as the engine replaced will be included in calculating the consecutive time period.
  - (c) For the purposes of this condition and pursuant to 40 CFR 1069.30 *Nonroad Engine* (2)(iii), a location is any single site at a building, structure, facility, or installation.
- (d) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in the permit. National Emission Standards for Hazardous Air Pollutants (NESHAP)

National Emission Standards for Hazardous Air Pollutants (NESHAP)

- (e) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Stationary Reciprocating Internal Combustion Engines, 40 CFR 63.6580, Subpart ZZZZ (326 IAC 20-82), are not included in the permit for the one (1) diesel engine, identified as E1, since by itself or in or on a piece of equipment, the diesel engines are portable or transportable, meaning designed to be and capable of being carried or moved from one location to another. This engine meets the definition of a nonroad engine, as defined in 40 CFR 1068.30 and is, therefore, not considered a stationary internal combustion engine as defined in 40 CFR 63.6675.
- (f) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) included in the permit.

Compliance Assurance Monitoring (CAM)

- (g) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is not included in the permit, because the unlimited potential to emit of the source is less than the Title V major source thresholds and the source is not required to obtain a Part 70 or Part 71 permit.

<b>State Rule Applicability - Entire Source</b>
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The following state rules are applicable to the source:

**326 IAC 1-7 (Stack Height Provisions)**

The source is not subject to the requirements of 326 IAC 1-7 since there are no exhaust gas stacks through which a potential of twenty-five (25) tons per year or more (before controls) of particulate matter or sulfur dioxide are emitted.

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

This source is not a major stationary source, under PSD (326 IAC 2-2), because the potential to emit of all attainment regulated criteria pollutants are less than 250 tons per year, the potential to emit greenhouse gases (GHG) is less than 100,000 tons of CO<sub>2</sub>e per year, and this source is not one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(gg)(1).

Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

326 IAC 2-3 (Emission Offset) and 326 IAC 2-1.1-5 (Nonattainment New Source Review)

- (1) This existing source is not a major stationary source, under Emission Offset (326 IAC 2-3), because the potential to emit all nonattainment regulated pollutants are less than 100 tons per year. Therefore, pursuant to 326 IAC 2-3, the Emission Offset requirements do not apply.
- (2) This existing source is not a major stationary source, under 326 IAC 2-1.1-5 (Nonattainment New Source Review), because the potential to emit particulate matter with a diameter less than ten 2.5 micrometers (PM<sub>2.5</sub>), is less than 100 tons per year. Therefore, pursuant to 326 IAC 2-1.1-5, the Nonattainment New Source Review requirements do not apply.

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

The potential to emit of any single HAP is less than ten (10) tons per year and the potential to emit of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA) and not subject to the provisions of 326 IAC 2-4.1.

326 IAC 2-6.1 (Minor Source Operating Permits (MSOP))

MSOP applicability is discussed under the Permit Level Determination – MSOP section above.

326 IAC 2-6 (Emission Reporting)

Pursuant to 326 IAC 2-6-1, this source is not subject to this rule, even though it is located in Porter County, because it is not required to have an operating permit under 326 IAC 2-7 (Part 70), it has actual emissions of NO<sub>x</sub> and VOC of less than twenty-five (25) tons per year, and it does not emit lead into the ambient air at levels equal to or greater than 5 tons per year. Therefore, 326 IAC 2-6 does not apply.

326 IAC 5-1 (Opacity Limitations)

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

- (1) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (2) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

326 IAC 6-4 (Fugitive Dust Emissions Limitations)

Pursuant to 326 IAC 6-4 (Fugitive Dust Emissions Limitations), the source 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.

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

This rule requires a fugitive dust plan to be submitted since this source has a potential to emit fugitive particulate matter that is greater than twenty-five (25) tons per year.

- (a) The plan for The Levy Company - Port of Indiana was submitted, reviewed, and approved on November 22, 2011, and consists of applying water on storage piles, unpaved roadways, material loading and unloading operations on an “as needed” basis.

The source will comply with all dust abatement measures contained therein.

326 IAC 6.5 (PM Limitations Except Lake County)

This source is not subject to 326 IAC 6.5 because it is not located in one (1) of the following counties: Clark, Dearborn, Dubois, Howard, Marion, St. Joseph, Vanderburgh, Vigo or Wayne.

326 IAC 9-1-2 (Carbon Monoxide Emissions Limitations)

There are no emissions units at this source that meet the definition of emissions units listed under 326 IAC 9-1-2. Therefore, carbon monoxide emissions limitations are not applicable to this source.

326 IAC 10-1 (Nitrogen Oxides Control in Clark and Floyd Counties)

This source is not subject to the requirements of this rule since it is not located in Clark or Floyd Counties. The source is located in Porter County; therefore, the requirements of 326 IAC 10-1 are not applicable.

326 IAC 10-3 (Nitrogen Oxide Reduction Program for Specific Source Categories)

The source does not operate any of the specific source categories as identified in 326 IAC 10-3-1(a). Therefore the requirements of 326 IAC 10-3 are not applicable.

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

The source does not operate an electricity generating unit as defined under 326 IAC 10-4-2(16) or a large affected unit as defined under 326 IAC 10-4-2(27). Therefore the requirements of 326 IAC 10-4 are not applicable.

326 IAC 10-5 (Nitrogen Oxide Reduction Program for Internal Combustion Engines)

The source does not operate a large NOx SIP Call engine or an engine that is subject to NOx control under a compliance plan under 326 IAC 10-3. Therefore the requirements of 326 IAC 10-5 are not applicable.

**State Rule Applicability - Individual Facilities**

Screening and Conveying

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

(a) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the loaders, feeders, screens, and conveyors/stackers (identified as PL-1, PC-1, PSK-1, PS-1) shall not exceed the pounds per hour limits as shown in the following table:

Emission Unit ID	Particulate Emission Rate			Potential Particulate Emission Rate (lb/hr)
	Components	Process Weight Rate (lbs)	Allowable Particulate Emission Rate (lb/hr)	
PL-1	feeder	900,000	208.5	3.96
	stacker/conveyor	900,000	208.5	1.35
PSK-1	stacker 1	400,000	187.3	0.6
	stacker 2	400,000	187.3	0.6
PC-1	Conveyor 1	900,000	208.5	1.35
	Conveyor 2	900,000	208.5	1.35
	Conveyor 3	900,000	208.5	1.35
	Conveyor 4	900,000	208.5	1.35
PS-1	feeder	500,000	192.9	2.2
	screen	500,000	192.9	6.25
	conveyor/stacker	500,000	192.9	0.75

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

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

The uncontrolled potential particulate matter emissions from PL-1, PC-1, PSK-1, and PS-1 are less than the allowable emission rates based on calculations using emission factors from AP-42 Section 11.19.2, Crushed Stone Processing Operations. Therefore, water suppression is not needed to comply with this limit.

- (b) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), when the process weight rate exceeds two hundred (200) tons per hour, the allowable emissions may exceed that shown in the table in 326 IAC 6-3-2(e) provided the concentration of particulate in the discharge gases to the atmosphere is less than one tenth (0.10) pound per one thousand (1,000) pounds of gases.

### Combustion Sources

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

The one (1) diesel engine, identified as E1, is exempt from the requirements of 326 IAC 6-3, because, pursuant to 326 IAC 1-2-59, liquid and gaseous fuels and combustion air are not considered as part of the process weight. In addition, pursuant to 326 IAC 6-3-1(b)(14), the one (1) diesel engine, identified as E1, is also exempt from the requirements of 326 IAC 6-3, because it has potential particulate emissions of less than five hundred fifty-one thousandths (0.551) pound per hour.

#### 326 IAC 7 (Sulfur Dioxide Emissions Limitations)

The one (1) diesel engine, identified as E1, has potential to emit of SO<sub>2</sub> below twenty-five (25) tons per year and 10 pounds per hour. Therefore, 326 IAC 7 does not apply.

#### 326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)

The one (1) diesel engine, identified as E1, is not subject to the requirements of 326 IAC 8-1-6, because the unlimited VOC potential emissions are less than twenty-five (25) tons per year.

### **Compliance Determination, Monitoring and Testing Requirements**

- (a) This source has elected to utilize emission factors from AP-42 Section 11.19.2, Crushed Stone Processing Operations as an alternative to using emission factors from AP-42 Section 12.5-4, for uncontrolled Particulate Emissions for Open Dust Sources at Iron and Steel Mills. The source will be required to complete one-time testing to ensure that the moisture content of the BOF slag (and any other processed aggregates) meet the moisture content criteria outlined in Section 11.19.2 of 0.21 to 1.3 percent. In order to use the emission factors from AP-42 Crushed Stone Processing Operations, without required use of wet suppression, the source must determine a minimum moisture content of 0.21 percent for all processed materials. Therefore, the testing requirements applicable to this source are as follows:
- (1) In order to verify that the moisture content of the aggregate materials being processed at this source is at a minimum of 0.21 percent, the Permittee shall conduct a one-time moisture content analysis of each aggregate material type to be processed by the screening and conveying equipment. Testing shall be performed not later than one hundred eighty (180) days of permit issuance. This testing shall be conducted utilizing methods as approved by the Commissioner. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C – Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition.

### Conclusion and Recommendation

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 November 14, 2011.

The construction and operation of this source shall be subject to the conditions of the attached proposed (New Source Construction and Review MSOP No. M127-31139-00124. The staff recommends to the Commissioner that this (New Source Construction Review MSOP be approved.

### IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Angela Taylor at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 234-5329 or toll free at 1-800-451-6027 extension 4-5329.
- (b) A copy of the findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: [www.in.gov/idem](http://www.in.gov/idem)

**Appendix A: Emission Calculations  
Emissions Summary**

**Company Name:** The Levy Company - Port of Indiana  
**Address:** 900 George Nelson Drive, Portage, IN 46368  
**County:** Porter  
**SIC Code:** 3295  
**Minor Source Operating Permit Number:** M127-31139-00124  
**Calculations Prepared By:** ST Environmental LLC  
**Reviewer:** APT  
**Date:** 11/17/2011

<b>UNCONTROLLED PTE (TONS/YEAR)</b>										
<b>Process/Equip</b>	<b>PM</b>	<b>PM10</b>	<b>PM2.5</b>	<b>SOx</b>	<b>NOx</b>	<b>VOC</b>	<b>CO</b>	<b>CO2e</b>	<b>Single HAP</b>	<b>Total HAPs</b>
Roadways	71.92	19.17	0.01	-----	-----	-----	-----	-----	-----	-----
Pile Operations	26.15	12.37	3.89	-----	-----	-----	-----	-----	-----	-----
Pile Wind Erosion	1.25	0.63	0.09	-----	-----	-----	-----	-----	-----	-----
Portable Process Equipment	92.46	36.68	28.40	-----	-----	-----	-----	-----	-----	-----
Combustion (Generators/Engines)	1.62	1.62	1.62	1.51	22.81	1.82	4.92	856.68	0.02	0.05
<b>TOTAL PTE</b>	<b>193.41</b>	<b>70.46</b>	<b>34.01</b>	<b>1.51</b>	<b>22.81</b>	<b>1.82</b>	<b>4.92</b>	<b>856.68</b>	<b>0.02</b>	<b>0.05</b>
Title V Major Source Threshold	NA	100	100	100	100	100	100	100,000	10	25

<b>CONTROLLED PTE (TONS/YEAR)</b>										
<b>Process/Equip</b>	<b>PM</b>	<b>PM10</b>	<b>PM2.5</b>	<b>SOx</b>	<b>NOx</b>	<b>VOC</b>	<b>CO</b>	<b>CO2e</b>	<b>Single HAP</b>	<b>Total HAPs</b>
Roadways	10.79	2.88	0.0015	-----	-----	-----	-----	-----	-----	-----
Pile Operations	2.62	1.24	0.39	-----	-----	-----	-----	-----	-----	-----
Pile Wind Erosion	0.13	0.06	0.01	-----	-----	-----	-----	-----	-----	-----
Portable Process Equipment	46.23	18.34	14.20	-----	-----	-----	-----	-----	-----	-----
Combustion (Generators/Engines)	1.62	1.62	1.62	1.51	22.81	1.82	4.92	856.68	0.02	0.05
<b>TOTAL CONTROLLED PTE</b>	<b>61.38</b>	<b>24.13</b>	<b>16.22</b>	<b>1.51</b>	<b>22.81</b>	<b>1.82</b>	<b>4.92</b>	<b>856.68</b>	<b>0.02</b>	<b>0.05</b>
PSD Major Source Thresholds**	250	250	250	250	250	250	250	100,000	NA	NA
Emission Offset/Nonattainment NSR Major Source Thresholds	100	100	100	100	100	100	100	NA	NA	NA

**Appendix A: Emission Calculations  
Particulate Emissions Screening and Conveying**

**Company Name:** The Levy Company - Port of Indiana  
**Address:** 900 George Nelson Drive, Portage, IN 46368  
**County:** Porter  
**SIC Code:** 3295  
**Minor Source Operating Permit Number:** M127-31139-00124  
**Calculations Prepared By:** ST Environmental LLC  
**Reviewer:** APT  
**Date:** 11/17/2011

**PTE Portable Equipment throughput:** 344,989 tons      20,148,000      33,726,000

Equipment Descriptions		Unit Capacity	Throughput Capacity	Emission Factors (lb/ton)			(PTE) Uncontrolled Emissions (ton/yr)			Control	Controlled Emissions (ton/yr)		
Portable Equip	Equipment Pieces	(tph)	(tons/yr)	PM	PM <sub>10</sub>	PM <sub>2.5</sub>	PM	PM <sub>10</sub>	PM <sub>2.5</sub>	Efficiency	PM	PM <sub>10</sub>	PM <sub>2.5</sub>
Portable loader (PL-1)	<sup>1)</sup> feeder	450	3,942,000	0.0088	0.0043	0.0016	17.3448	8.4753	3.1536	50%	8.6724	4.2377	1.5768
	conveyor/stacker	450	3,942,000	0.003	0.0011	0.0011	5.9130	2.1681	2.1681	50%	2.9565	1.0841	1.0841
Portable stackers (2) (PSK-1)	stackers x 2	200	3,504,000	0.003	0.0011	0.0011	5.2560	1.9272	1.9272	50%	2.6280	0.9636	0.9636
Portable conveyors (4) (PC-1)	conveyors x 4	450	15,768,000	0.003	0.0011	0.0011	23.6520	8.6724	8.6724	50%	11.8260	4.3362	4.3362
Screen unit with feeder/conveyor & stacker/conveyor (3 pts) (PS-1)	<sup>1)</sup> feed hopper	250	2,190,000	0.0088	0.0043	0.0016	9.6360	4.7085	1.7520	50%	4.8180	2.3543	0.8760
	screen	250	2,190,000	0.025	0.0087	0.0087	27.3750	9.5265	9.5265	50%	13.6875	4.7633	4.7633
	conveyor/stacker	250	2,190,000	0.003	0.0011	0.0011	3.2850	1.2045	1.2045	50%	1.6425	0.6023	0.6023
Control Efficiency (wet suppression):		50%		<b>Totals:</b>			<b>92.46</b>	<b>36.68</b>	<b>28.40</b>	<b>Totals:</b>	<b>46.23</b>	<b>18.34</b>	<b>14.20</b>

<sup>1)</sup> The uncontrolled emission factor for the loading is the one for low silt batch drop from iron and steel mills. (AP-42, Chapter 12.5, Table 12.5.4 (10/86)).

Pursuant to AP-42 Chapter 12.2 Coke Production, Table 12.2-18, emissions from material transfers between conveyors and from screening operations that are controlled by wet suppression techniques can be estimated using the procedures in Section 11.19.2. The source is processing BOF Slag, which would be estimated using emission factors in Section 12.5-4 for uncontrolled Particulate Emissions for Open Dust Sources at Iron and Steel Mills. The source will be required to complete one-time testing to ensure that the moisture content of the BOF slag (and any other processed aggregates) meet the moisture content criteria outlined in Section 11.19.2 of 0.21 to 1.3 percent. In order to use the emission factors from AP-42 Crushed Stone Processing Operations, without required use of wet suppression, the source must determine a minimum moisture content of 0.21 percent for all processed materials.

**Methodology**

Emission Factors based on AP-42 Crushed Stone Processing Operations, 11.19.2, Table 11.19.2-2, Date 08/04

Uncontrolled Emissions (tpy) = Throughput (tons/yr) \* Uncontrolled Emission Factor (lb/ton) / 2000 (lb/ton)

Controlled Emissions (tpy) = Throughput (tons/yr) \* Uncontrolled Emission Factor (lb/ton) / 2000 (lb/ton) \* (1 - Control Efficiency)

**Appendix A: Emission Calculations  
Potential to Emit - From Storage Piles**

**Company Name:** The Levy Company - Port of Indiana  
**Address:** 900 George Nelson Drive, Portage, IN 46368  
**County:** Porter  
**SIC Code:** 3295  
**Minor Source Operating Permit Number:** M127-31139-00124  
**Calculations Prepared By:** ST Environmental LLC  
**Reviewer:** APT  
**Date:** 11/17/2011

From AP-42 13.2.4, Aggregate Handling and Storage Piles, 11/2006  
 Emissions from slag storage piles can be described by the following empirical equation:

$$E = k(0.0032) \frac{\left(\frac{U}{5}\right)^{1.3}}{\left(\frac{M}{2}\right)^{1.4}}$$

Where:

E = emission factor (lb/tn)  
 k = particle size multiplier (dimensionless)  
 U = mean wind speed, miles per hour  
 M = material moisture content (%)

k =	PM	0.74
	PM <sub>10</sub>	0.35
	PM <sub>2.5</sub>	0.11

U = 13.4 mean wind speed, (mph) [source=rredc.nrel.gov/wind/pubs/atlas/maps/chap1/2-06m.html]

The mean moisture content was estimated as the average moisture content based on onsite test data.

M = 2.00 % USING A LOWER CONSERVATIVE MOISTURE BASED ON TEST DATA BELOW.

**E = Emission Factors (lb/ton)**

PM	PM <sub>10</sub>	PM <sub>2.5</sub>
0.0085	0.0040	0.0013

Production: 6,132,000 tons (based on max feed capacity)  
 Control Eff: 90%

<b>PTE</b>	<b>26.15</b>	<b>Uncontrolled PM (tons)</b>
	<b>12.37</b>	<b>Uncontrolled PM10 (tons)</b>
	<b>3.89</b>	<b>Uncontrolled PM2.5 (tons)</b>
	<b>2.62</b>	<b>Controlled PM (tons)</b>
	<b>1.24</b>	<b>Controlled PM10 (tons)</b>
	<b>0.39</b>	<b>Controlled PM2.5 (tons)</b>

Data taken from 2008 plant statistical analysis reports

date	material	mean moisture	silt
2008	0113-7/16x0"	4.67	
	IN-11	2.39	1.6
	53BF	3.14	4.5
	IN-8 Spec	2.75	0
	QA#24 slag sand	3.68	9.15
	QA-5	1.83	0
	2160-2x1	3.14	
	2205-BOF select	1.12	
	2423-22BF	5.17	
	Averages:	3.10	3.05

**Appendix A: Emission Calculations  
PTE Wind Erosion from Storage Piles (Storage)**

**Company Name:** The Levy Company - Port of Indiana  
**Address:** 900 George Nelson Drive, Portage, IN 46368  
**County:** Porter  
**SIC Code:** 3295  
**Minor Source Operating Permit Number:** M127-31139-00124  
**Calculations Prepared By:** ST Environmental LLC  
**Reviewer:** APT  
**Date:** 11/17/2011

The small area at the base of each pile where daily activity can occur is negligible and does not need to be calculated. (see sample calculation, AP-42 12.2.5-9, Step 2)  
 Disturbance via topping off of piles by stackers creates the fresh surface by which these calculations represent.  
 N = 365, assuming pile disturbances are once per day, conservative (plant does not operate daily)  
 The following equations are used to calculate wind erosion emission factors and velocity friction:

AP-42, 13.2.5, Date 11/2006

PTE Wind Erosion from Storage Piles (Storage)

Eqn 2:  $EF = K \sum_{i=1}^N P_i$   
 EF = emission factor (g/m<sup>2</sup>)  
 k = particle size multiplier  
 N = number of disturbances  
 P<sub>i</sub> = erosion potential corresponding to obs or prob fastest mile of wind for the ith period between disturbances, g/m<sup>2</sup>  
 k = 1 particle size multiplier for PM  
 k = 0.5 particle size multiplier for PM10  
 k = 0.075 particle size multiplier for PM2.5

Eqn 3:  $P = 58(u^* - u_t^*)^2 + 25(u^* - u_t^*)$   
 P = 0 for  $u^* \leq u_t^*$   
 u\* = friction velocity (m/s)  
 u<sup>\*</sup><sub>t</sub> = threshold friction velocity (m/s)  
 u<sup>\*</sup><sub>t</sub> = 1.33 m/s, using AP-42 value, Table 13.2.5-2 for Scoria (roadbed material)  
 u<sup>\*</sup><sub>10</sub> = fastest mile of reference anemometer ht, 10, for period between disturbances (m/s)  
 u<sup>\*</sup> = fastest mile of reference anemometer ht, z, for period between disturbances (m/s)  
 0.005 = assumed roughnes height (m)

Eqn 5:  $u_{10}^* = u^* + \frac{\ln(10 / 0.005)}{\ln(z / 0.005)}$   
 (Note: anemometer height not available for O'Hare weather station, assume 7 meters)  
 u<sup>\*</sup><sub>10</sub> = 1.05 u<sup>\*</sup>  
 u<sup>\*</sup><sub>s</sub> = surface wind speed distribution (m/s)

Eqn 6:  $U_s^* = u_s + u_r$   
 u<sup>\*</sup><sub>10</sub> = fastest mile of reference anemometer ht, 10, for period between disturbances (m/s)  
 u<sub>s</sub> = surface wind speed (m/s)  
 u<sub>r</sub> = approach wind speed (m/s)

Eqn 7:  $u^* = 0.10 U_s^* + s$   
 u<sup>\*</sup> = friction velocity (m/s)

**Appendix A: Emission Calculations  
PTE Wind Erosion from Storage Piles (Storage) (Continued)**

**Company Name:** The Levy Company - Port of Indiana  
**Address:** 900 George Nelson Drive, Portage, IN 46368  
**County:** Porter  
**SIC Code:** 3295  
**Minor Source Operating Permit Number:** M127-31139-00124  
**Calculations Prepared By:** ST Environmental LLC  
**Reviewer:** APT  
**Date:** 11/17/2011

**CALCULATE AREAS OF A TYPICAL PILE, BROKEN INTO SUB-AREAS**

Calculate estimated average area of each storage pile:  
 oblong piles, not conical, see B2, AP-42 Figure 13.2.5-2  
 calculate as a rectangular box shape for surface area, conservatively  
 4 sides and 1 top

Area top = length x width  
 Area each side = length x height  
 Area top = 648 m<sup>2</sup>  
 Area four sides = 720 m<sup>2</sup>  
 Total Surface Area of Each Pile = 1368 m<sup>2</sup>

length (m): 36 typical size of piles at slag plant, based on pile inventories at Levy ECL 2006.  
 width (m): 18 typical size of piles at slag plant, based on pile inventories at Levy ECL 2006.  
 height (m): 5 typical size of piles at slag plant, based on pile inventories at Levy ECL 2006.

Using B2 Type Pile, see Figure 13.2.5-2, AP-42

Pile Subarea	u <sub>p</sub> /u <sub>r</sub>	% of Surface Area	Area (m <sub>2</sub> )
1	0.2	3%	41
2	0.2	28%	383
3	0.6	29%	397
4	0.6	22%	301
5	0.9	15%	205
6	1.1	3%	41
Total Area:			1368

(see integrated wind erosion calculation spreadsheet, next Page)

**CALCULATE ESTIMATED NUMBER OF PILES BASED ON MAXIMUM CAPACITY OF STORAGE PILE AREA**

Maximum throughput is equal to maximum amount of slag in storage piles, whether raw material or product material.

**COMPUTE MAXIMUM POTENTIAL PILE STORAGE CAPACITY:**

1762 kg/cu m, density of bulk materials, [http://www.simetric.co.uk/si\\_materials.htm](http://www.simetric.co.uk/si_materials.htm)  
 109.998 lb/cu.ft.

0.1 Area 1 width miles 528 Area 1 width feet 4,181,760 cu.ft potential volume Area 1 at avg height  
 0.1 Area 1 length miles 528 Area 1 length feet 229,993 tons potential material piles Area 1  
 0.05 Area 2 width miles 264 Area 2 width feet 2,090,880 cu.ft potential volume Area 2 at avg height  
 0.1 Area 2 length miles 528 Area 2 length feet 114,996 tons potential material piles Area 2  
 15 ft avg ht both areas 344,989 tons total potential material capacity storage

Maximum throughput = 344,989 tpy (based on max storage capacity)  
 Bulk Density of Slag = 1,762 kg/m<sup>3</sup>  
 Volume of the calculated pile above = 12,960 m<sup>3</sup>  
 Weight of slag per pile = 22,835,520 kg of slag per pile  
 25,172 tons of slag per pile  
 Estimated number of piles = 14 piles based on max plant equipment capacity

**CALCULATE TOTAL PTE**

Total emissions from one pile: 0.09 tons PM (see integrated wind erosion calculation spreadsheet, next Page)  
 0.05 tons PM<sub>10</sub>  
 0.01 tons PM<sub>2.5</sub>  
 Emissions for all potential piles: 1.25 tons PM uncontrolled  
 0.63 tons PM<sub>10</sub> uncontrolled  
 0.09 tons PM<sub>2.5</sub> uncontrolled  
 90% estimated control efficiency, wet suppression  
 0.13 tons PM controlled  
 0.06 tons PM<sub>10</sub> controlled  
 0.01 tons PM<sub>2.5</sub> controlled

**Appendix A: Emission Calculations**  
**Potential to Emit - FROM UNPAVED ROADWAYS**

**Company Name:** The Levy Company - Port of Indiana  
**Address:** 900 George Nelson Drive, Portage, IN 46368  
**County:** Porter  
**SIC Code:** 3295  
**Minor Source Operating Permit Number:** M127-31139-00124  
**Calculations Prepared By:** ST Environmental LLC  
**Reviewer:** APT  
**Date:** 11/17/2011

PTE material throughput (tons): 6,132,000 tons (based on max feed capacity)

Vehicle	Production (tons/yr)	Product Weight (tons/RT)	Round Trips/yr	Avg miles per round trip	VMT/yr
Trucks and haulers	6,132,000	50	122,640	0.05	6,132
Front-end loaders	6,132,000	15	408,800	0.02	8,176

Vehicle	Mean Weight (W) (tons)	PM Emission Factor <sup>2</sup> (lb/VMT)	PM2.5 Emission Factor <sup>2</sup> (lb/VMT)	PM10 Emission Factor <sup>2</sup> (lb/VMT)	VMT/yr	UNCONTROLLED PTE			CONTROLLED PTE		
						PM Emissions (TPY)	PM10 Emissions (TPY)	PM2.5 Emissions (TPY)	PM Emissions (TPY)	PM10 Emissions (TPY)	PM2.5 Emissions (TPY)
Trucks and haulers	64	11.96	0.32	3.19	6,132	36.65	9.77	0.00584	5.4981	1.4652	0.00088
Front-end loaders	31	8.63	0.23	2.30	8,176	35.27	9.40	0.00405	5.2904	1.4099	0.00061
						<b>71.92</b>	<b>19.17</b>	<b>0.01</b>	<b>10.79</b>	<b>2.88</b>	<b>0.00148</b>

85% control efficiency

\*Based on a control efficiency in the AP-42 from the periodic application of water and/or other dust suppressants.

Reference AP-42, 13.2.2, 11/2006  
 $E = k(s/12)^a \times (W/3)^b$

Variable	PM10 Value	Units
k (lb/VMT)	1.5	Table 13.2.2-2
a	0.9	Table 13.2.2-2
b	0.45	Table 13.2.2-2
W	see above	tons
M	-	% (default)
s	6	% (Table 13.2.2-1)(iron/steel mills)

Variable	PM Value	Units
k (lb/VMT)	4.9	Table 13.2.2-2
a	0.7	Table 13.2.2-2
b	0.45	Table 13.2.2-2
W	see above	tons
M	-	% (default)
s	6	% (Table 13.2.2-1)(iron/steel mills)

Variable	PM2.5 Value	Units
k (lb/VMT)	0.15	Table 13.2.2-2
a	0.9	Table 13.2.2-2
b	0.45	Table 13.2.2-2
W	see above	tons
M	-	% (default)
s	6	% (Table 13.2.2-1)(iron/steel mills)

**Appendix A: Emission Calculations**  
**INTEGRATED WIND EROSION CALCULATION OF ONE PILE**

**Company Name:** The Levy Company - Port of Indiana  
**Address:** 900 George Nelson Drive, Portage, IN 46368  
**County:** Porter  
**SIC Code:** 3295  
**Minor Source Operating Permit Number:** M127-31139-00124  
**Calculations Prepared By:** ST Environmental LLC  
**Reviewer:** APT  
**Date:** 11/17/2011

**PTE Wind Erosion from Storage Piles (Storage)**

AP-42, 13.2.5, Date 1/2006

Wind data,  $u^*$ , purchased from NOAA local climatic data website, ORD weather station 2010 monthly charts, maximum speed 2-min.

$EF_{PM_{10}}/EF_{PM_{10}}/EF_{PM_{2.5}}$  = emission factor ( $g/m^2$ )

$PM/PM_{10}/PM_{2.5}$  = particulate matter emissions (tpy), uncontrolled

$P_{1-6}$  = erosion potential ( $g/m^2$ )

Assuming worst case of 365 day disturbances.

Period	$u^*$			$u^*$ (m/s) = ( $u/u_0$ ) $u^*_{10}$								Pile Subarea 1		Pile Subarea 2		Pile Subarea 3		Pile Subarea 4		Pile Subarea 5					Pile Subarea 6								
	mph	m/s	m/s	$u_0/u_0: 0.2$	$u_0/u_0: 0.6$	$u_0/u_0: 0.9$	$u_0/u_0: 1.1$	$u_0/u_0: 1.4$	$u_0/u_0: 0.2$	$u_0/u_0: 0.6$	$u_0/u_0: 0.9$	$u_0/u_0: 1.1$	P	$EF_{PM_{10}}$	P	$EF_{PM_{10}}$	P	$EF_{PM_{10}}$	P	$EF_{PM_{10}}$	$EF_{PM_{10}}$	$EF_{PM_{2.5}}$	PM	$PM_{10}$	$PM_{2.5}$	P	$EF_{PM_{10}}$	$EF_{PM_{2.5}}$	PM	$PM_{10}$	$PM_{2.5}$		
1/1/2010	15	6.706	7.041	1.408	4.225	6.337	7.745	0.141	0.422	0.634	0.774	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.000	0.000	0	0	0	0.0	0.000	0.000	0.000	0	0	0
1/2/2010	18	8.047	8.449	1.690	5.069	7.604	9.294	0.169	0.507	0.760	0.929	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.000	0.000	0	0	0	0.0	0.000	0.000	0.000	0	0	0
1/3/2010	16	7.153	7.510	1.502	4.506	6.759	8.261	0.150	0.451	0.676	0.826	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.000	0.000	0	0	0	0.0	0.000	0.000	0.000	0	0	0
1/4/2010	17	7.600	7.980	1.596	4.788	7.182	8.778	0.160	0.479	0.718	0.878	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.000	0.000	0	0	0	0.0	0.000	0.000	0.000	0	0	0
1/5/2010	16	7.153	7.510	1.502	4.506	6.759	8.261	0.150	0.451	0.676	0.826	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.000	0.000	0	0	0	0.0	0.000	0.000	0.000	0	0	0
1/6/2010	12	5.364	5.633	1.127	3.380	5.069	6.196	0.113	0.338	0.507	0.620	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.000	0.000	0	0	0	0.0	0.000	0.000	0.000	0	0	0
1/7/2010	13	5.812	6.102	1.220	3.661	5.492	6.712	0.122	0.366	0.549	0.671	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.000	0.000	0	0	0	0.0	0.000	0.000	0.000	0	0	0
1/8/2010	23	10.282	10.796	2.159	6.478	9.716	11.876	0.216	0.648	0.972	1.188	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.000	0.000	0	0	0	0.0	0.000	0.000	0.000	0	0	0
1/9/2010	15	6.706	7.041	1.408	4.225	6.337	7.745	0.141	0.422	0.634	0.774	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.000	0.000	0	0	0	0.0	0.000	0.000	0.000	0	0	0
1/10/2010	24	10.729	11.265	2.253	6.759	10.139	12.392	0.225	0.676	1.014	1.239	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.000	0.000	0	0	0	0.0	0.000	0.000	0.000	0	0	0
1/11/2010	21	9.388	9.857	1.971	5.914	8.872	10.843	0.197	0.591	0.887	1.084	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.000	0.000	0	0	0	0.0	0.000	0.000	0.000	0	0	0
1/12/2010	18	8.047	8.449	1.690	5.069	7.604	9.294	0.169	0.507	0.760	0.929	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.000	0.000	0	0	0	0.0	0.000	0.000	0.000	0	0	0
1/13/2010	20	8.941	9.388	1.878	5.633	8.449	10.327	0.188	0.563	0.845	1.033	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.000	0.000	0	0	0	0.0	0.000	0.000	0.000	0	0	0
1/14/2010	17	7.600	7.980	1.596	4.788	7.182	8.778	0.160	0.479	0.718	0.878	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.000	0.000	0	0	0	0.0	0.000	0.000	0.000	0	0	0
1/15/2010	14	6.259	6.571	1.314	3.943	5.914	7.229	0.131	0.394	0.591	0.723	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.000	0.000	0	0	0	0.0	0.000	0.000	0.000	0	0	0
1/16/2010	15	6.706	7.041	1.408	4.225	6.337	7.745	0.141	0.422	0.634	0.774	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.000	0.000	0	0	0	0.0	0.000	0.000	0.000	0	0	0
1/17/2010	13	5.812	6.102	1.220	3.661	5.492	6.712	0.122	0.366	0.549	0.671	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.000	0.000	0	0	0	0.0	0.000	0.000	0.000	0	0	0
1/18/2010	12	5.364	5.633	1.127	3.380	5.069	6.196	0.113	0.338	0.507	0.620	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.000	0.000	0	0	0	0.0	0.000	0.000	0.000	0	0	0
1/19/2010	9	4.023	4.225	0.845	2.535	3.802	4.647	0.084	0.253	0.380	0.465	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.000	0.000	0	0	0	0.0	0.000	0.000	0.000	0	0	0
1/20/2010	25	11.176	11.735	2.347	7.041	10.561	12.908	0.235	0.704	1.056	1.291	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.000	0.000	0	0	0	0.0	0.000	0.000	0.000	0	0	0
1/21/2010	25	11.176	11.735	2.347	7.041	10.561	12.908	0.235	0.704	1.056	1.291	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.000	0.000	0	0	0	0.0	0.000	0.000	0.000	0	0	0
1/22/2010	16	7.153	7.510	1.502	4.506	6.759	8.261	0.150	0.451	0.676	0.826	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.000	0.000	0	0	0	0.0	0.000	0.000	0.000	0	0	0
1/23/2010	17	7.600	7.980	1.596	4.788	7.182	8.778	0.160	0.479	0.718	0.878	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.000	0.000	0	0	0	0.0	0.000	0.000	0.000	0	0	0
1/24/2010	25	11.176	11.735	2.347	7.041	10.561	12.908	0.235	0.704	1.056	1.291	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.000	0.000	0	0	0	0.0	0.000	0.000	0.000	0	0	0
1/25/2010	26	11.623	12.204	2.441	7.323	10.984	13.425	0.244	0.732	1.098	1.342	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.000	0.000	0	0	0	0.7	0.723	0.361	0.054	3E-05	2E-05	2E-06
1/26/2010	22	9.835	10.327	2.065	6.196	9.294	11.359	0.207	0.620	0.929	1.136	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.000	0.000	0	0	0	0.0	0.000	0.000	0.000	0	0	0
1/27/2010	22	9.835	10.327	2.065	6.196	9.294	11.359	0.207	0.620	0.929	1.136	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.000	0.000	0	0	0	0.0	0.000	0.000	0.000	0	0	0
1/28/2010	25	11.176	11.735	2.347	7.041	10.561	12.908	0.235	0.704	1.056	1.291	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.000	0.000	0	0	0	0.0	0.000	0.000	0.000	0	0	0
1/29/2010	10	4.470	4.694	0.939	2.816	4.225	5.163	0.094	0.282	0.422	0.516	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.000	0.000	0	0	0	0.0	0.000	0.000	0.000	0	0	0
1/30/2010	13	5.812	6.102	1.220	3.661	5.492	6.712	0.122	0.366	0.549	0.671	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.000	0.000	0	0	0	0.0	0.000	0.000	0.000	0	0	0
1/31/2010	17	7.600	7.980	1.596	4.788	7.182	8.778	0.160	0.479	0.718	0.878	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.000	0.000	0	0	0	0.0	0.000	0.000	0.000	0	0	0
2/1/2010	9	4.023	4.225	0.845	2.535	3.802	4.647	0.084	0.253	0.380	0.465	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.000	0.000	0	0	0	0.0	0.000	0.000	0.000	0	0	0
2/2/2010	14	6.259	6.571	1.314	3.943	5.914	7.229	0.131	0.394	0.591	0.723	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.000	0.000	0	0	0	0.0	0.000	0.000	0.000	0	0	0
2/3/2010	14	6.259	6.571	1.314	3.943	5.914	7.229	0.131	0.394	0.591	0.723	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.000	0.000	0	0	0	0.0	0.000	0.000	0.000	0	0	0
2/4/2010	14	6.259	6.571	1.314	3.943	5.914	7.229	0.131	0.394	0.591	0.723	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.000	0.000	0	0	0	0.0	0.000	0.000	0.000	0	0	0
2/5/2010	26	11.623	12.204	2.441	7.323	10.984	13.425	0.244	0.732	1.098																							









**Appendix A: Emission Calculations**  
**INTEGRATED WIND EROSION CALCULATION OF ONE PILE (Continued)**

**Company Name:** The Levy Company - Port of Indiana  
**Address:** 900 George Nelson Drive, Portage, IN 46368  
**County:** Porter  
**SIC Code:** 3295  
**Minor Source Operating Permit Number:** M127-31139-00124  
**Calculations Prepared By:** ST Environmental LLC  
**Reviewer:** APT  
**Date:** 11/17/2011

AP-42, 13.2.5, Date 1/2006

Wind data,  $u^*$ , purchased from NOAA local climatic data website, ORD weather station 2010 monthly charts, maximum speed 2-min.

$EF_{PM}/EF_{PM10}/EF_{PM2.5}$  = emission factor ( $g/m^2$ )

$PM/PM10/PM2.5$  = particulate matter emissions (tpy), uncontrolled

$P_{1-6}$  = erosion potential ( $g/m^2$ )

Assuming worst case of 365 day disturbances.

Period	u		u* (m/s) = (u <sub>w</sub> /u <sub>z</sub> ) <sup>0.10</sup>									u* (m/s) = 0.10 u's												Pile Subarea 5						Pile Subarea 6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
	mph	m/s	u <sub>w</sub> /0.2	u <sub>w</sub> /0.6	u <sub>w</sub> /0.9	u <sub>w</sub> /1.1	u <sub>w</sub> /1.4	u <sub>w</sub> /1.8	u <sub>w</sub> /2.2	u <sub>w</sub> /2.7	u <sub>w</sub> /3.3	u <sub>w</sub> /4.0	u <sub>w</sub> /4.8	u <sub>w</sub> /5.7	u <sub>w</sub> /6.7	u <sub>w</sub> /7.8	u <sub>w</sub> /9.0	u <sub>w</sub> /10.3	u <sub>w</sub> /11.7	u <sub>w</sub> /13.2	u <sub>w</sub> /14.8	u <sub>w</sub> /16.5	u <sub>w</sub> /18.3	u <sub>w</sub> /20.2	u <sub>w</sub> /22.2	u <sub>w</sub> /24.3	u <sub>w</sub> /26.5	u <sub>w</sub> /28.8	u <sub>w</sub> /31.2	u <sub>w</sub> /33.7	u <sub>w</sub> /36.3	u <sub>w</sub> /39.0	u <sub>w</sub> /41.8	u <sub>w</sub> /44.7	u <sub>w</sub> /47.7	u <sub>w</sub> /50.8	u <sub>w</sub> /54.0	u <sub>w</sub> /57.3	u <sub>w</sub> /60.7	u <sub>w</sub> /64.2	u <sub>w</sub> /67.8	u <sub>w</sub> /71.5	u <sub>w</sub> /75.3	u <sub>w</sub> /79.2	u <sub>w</sub> /83.2	u <sub>w</sub> /87.3	u <sub>w</sub> /91.5	u <sub>w</sub> /95.8	u <sub>w</sub> /100.2	u <sub>w</sub> /104.7	u <sub>w</sub> /109.3	u <sub>w</sub> /114.0	u <sub>w</sub> /118.8	u <sub>w</sub> /123.7	u <sub>w</sub> /128.7	u <sub>w</sub> /133.8	u <sub>w</sub> /139.0	u <sub>w</sub> /144.3	u <sub>w</sub> /149.7	u <sub>w</sub> /155.2	u <sub>w</sub> /160.8	u <sub>w</sub> /166.5	u <sub>w</sub> /172.3	u <sub>w</sub> /178.2	u <sub>w</sub> /184.2	u <sub>w</sub> /190.3	u <sub>w</sub> /196.5	u <sub>w</sub> /202.8	u <sub>w</sub> /209.2	u <sub>w</sub> /215.7	u <sub>w</sub> /222.3	u <sub>w</sub> /229.0	u <sub>w</sub> /235.8	u <sub>w</sub> /242.7	u <sub>w</sub> /249.7	u <sub>w</sub> /256.8	u <sub>w</sub> /264.0	u <sub>w</sub> /271.3	u <sub>w</sub> /278.7	u <sub>w</sub> /286.2	u <sub>w</sub> /293.8	u <sub>w</sub> /301.5	u <sub>w</sub> /309.3	u <sub>w</sub> /317.2	u <sub>w</sub> /325.2	u <sub>w</sub> /333.3	u <sub>w</sub> /341.5	u <sub>w</sub> /349.8	u <sub>w</sub> /358.2	u <sub>w</sub> /366.7	u <sub>w</sub> /375.3	u <sub>w</sub> /384.0	u <sub>w</sub> /392.8	u <sub>w</sub> /401.7	u <sub>w</sub> /410.7	u <sub>w</sub> /420.0	u <sub>w</sub> /429.5	u <sub>w</sub> /439.2	u <sub>w</sub> /449.1	u <sub>w</sub> /459.2	u <sub>w</sub> /469.5	u <sub>w</sub> /480.0	u <sub>w</sub> /490.7	u <sub>w</sub> /501.6	u <sub>w</sub> /512.7	u <sub>w</sub> /524.0	u <sub>w</sub> /535.5	u <sub>w</sub> /547.2	u <sub>w</sub> /559.1	u <sub>w</sub> /571.2	u <sub>w</sub> /583.5	u <sub>w</sub> /596.0	u <sub>w</sub> /608.7	u <sub>w</sub> /621.6	u <sub>w</sub> /634.7	u <sub>w</sub> /648.0	u <sub>w</sub> /661.5	u <sub>w</sub> /675.2	u <sub>w</sub> /689.1	u <sub>w</sub> /703.2	u <sub>w</sub> /717.5	u <sub>w</sub> /732.0	u <sub>w</sub> /746.7	u <sub>w</sub> /761.6	u <sub>w</sub> /776.7	u <sub>w</sub> /792.0	u <sub>w</sub> /807.5	u <sub>w</sub> /823.2	u <sub>w</sub> /839.1	u <sub>w</sub> /855.2	u <sub>w</sub> /871.5	u <sub>w</sub> /888.0	u <sub>w</sub> /904.7	u <sub>w</sub> /921.6	u <sub>w</sub> /938.7	u <sub>w</sub> /956.0	u <sub>w</sub> /973.5	u <sub>w</sub> /991.2	u <sub>w</sub> /1009.1	u <sub>w</sub> /1027.2	u <sub>w</sub> /1045.5	u <sub>w</sub> /1064.0	u <sub>w</sub> /1082.7	u <sub>w</sub> /1101.6	u <sub>w</sub> /1120.7	u <sub>w</sub> /1140.0	u <sub>w</sub> /1159.5	u <sub>w</sub> /1179.2	u <sub>w</sub> /1199.1	u <sub>w</sub> /1219.2	u <sub>w</sub> /1239.5	u <sub>w</sub> /1260.0	u <sub>w</sub> /1280.7	u <sub>w</sub> /1301.6	u <sub>w</sub> /1322.7	u <sub>w</sub> /1344.0	u <sub>w</sub> /1365.5	u <sub>w</sub> /1387.2	u <sub>w</sub> /1409.1	u <sub>w</sub> /1431.2	u <sub>w</sub> /1453.5	u <sub>w</sub> /1476.0	u <sub>w</sub> /1498.7	u <sub>w</sub> /1521.6	u <sub>w</sub> /1544.7	u <sub>w</sub> /1568.0	u <sub>w</sub> /1591.5	u <sub>w</sub> /1615.2	u <sub>w</sub> /1639.1	u <sub>w</sub> /1663.2	u <sub>w</sub> /1687.5	u <sub>w</sub> /1712.0	u <sub>w</sub> /1736.7	u <sub>w</sub> /1761.6	u <sub>w</sub> /1786.7	u <sub>w</sub> /1812.0	u <sub>w</sub> /1837.5	u <sub>w</sub> /1863.2	u <sub>w</sub> /1889.1	u <sub>w</sub> /1915.2	u <sub>w</sub> /1941.5	u <sub>w</sub> /1968.0	u <sub>w</sub> /1994.7	u <sub>w</sub> /2021.6	u <sub>w</sub> /2048.7	u <sub>w</sub> /2076.0	u <sub>w</sub> /2103.5	u <sub>w</sub> /2131.2	u <sub>w</sub> /2159.1	u <sub>w</sub> /2187.2	u <sub>w</sub> /2215.5	u <sub>w</sub> /2244.0	u <sub>w</sub> /2272.7	u <sub>w</sub> /2301.6	u <sub>w</sub> /2330.7	u <sub>w</sub> /2360.0	u <sub>w</sub> /2389.5	u <sub>w</sub> /2419.2	u <sub>w</sub> /2449.1	u <sub>w</sub> /2479.2	u <sub>w</sub> /2509.5	u <sub>w</sub> /2540.0	u <sub>w</sub> /2570.7	u <sub>w</sub> /2601.6	u <sub>w</sub> /2632.7	u <sub>w</sub> /2664.0	u <sub>w</sub> /2695.5	u <sub>w</sub> /2727.2	u <sub>w</sub> /2759.1	u <sub>w</sub> /2791.2	u <sub>w</sub> /2823.5	u <sub>w</sub> /2856.0	u <sub>w</sub> /2888.7	u <sub>w</sub> /2921.6	u <sub>w</sub> /2954.7	u <sub>w</sub> /2988.0	u <sub>w</sub> /3021.5	u <sub>w</sub> /3055.2	u <sub>w</sub> /3089.1	u <sub>w</sub> /3123.2	u <sub>w</sub> /3157.5	u <sub>w</sub> /3192.0	u <sub>w</sub> /3226.7	u <sub>w</sub> /3261.6	u <sub>w</sub> /3296.7	u <sub>w</sub> /3332.0	u <sub>w</sub> /3367.5	u <sub>w</sub> /3403.2	u <sub>w</sub> /3439.1	u <sub>w</sub> /3475.2	u <sub>w</sub> /3511.5	u <sub>w</sub> /3548.0	u <sub>w</sub> /3584.7	u <sub>w</sub> /3621.6	u <sub>w</sub> /3658.7	u <sub>w</sub> /3696.0	u <sub>w</sub> /3733.5	u <sub>w</sub> /3771.2	u <sub>w</sub> /3809.1	u <sub>w</sub> /3847.2	u <sub>w</sub> /3885.5	u <sub>w</sub> /3924.0	u <sub>w</sub> /3962.7	u <sub>w</sub> /4001.6	u <sub>w</sub> /4040.7	u <sub>w</sub> /4080.0	u <sub>w</sub> /4119.5	u <sub>w</sub> /4159.2	u <sub>w</sub> /4199.1	u <sub>w</sub> /4239.2	u <sub>w</sub> /4279.5	u <sub>w</sub> /4320.0	u <sub>w</sub> /4360.7	u <sub>w</sub> /4401.6	u <sub>w</sub> /4442.7	u <sub>w</sub> /4484.0	u <sub>w</sub> /4525.5	u <sub>w</sub> /4567.2	u <sub>w</sub> /4609.1	u <sub>w</sub> /4651.2	u <sub>w</sub> /4693.5	u <sub>w</sub> /4736.0	u <sub>w</sub> /4778.7	u <sub>w</sub> /4821.6	u <sub>w</sub> /4864.7	u <sub>w</sub> /4908.0	u <sub>w</sub> /4951.5	u <sub>w</sub> /4995.2	u <sub>w</sub> /5039.1	u <sub>w</sub> /5083.2	u <sub>w</sub> /5127.5	u <sub>w</sub> /5172.0	u <sub>w</sub> /5216.7	u <sub>w</sub> /5261.6	u <sub>w</sub> /5306.7	u <sub>w</sub> /5352.0	u <sub>w</sub> /5397.5	u <sub>w</sub> /5443.2	u <sub>w</sub> /5489.1	u <sub>w</sub> /5535.2	u <sub>w</sub> /5581.5	u <sub>w</sub> /5628.0	u <sub>w</sub> /5674.7	u <sub>w</sub> /5721.6	u <sub>w</sub> /5768.7	u <sub>w</sub> /5816.0	u <sub>w</sub> /5863.5	u <sub>w</sub> /5911.2	u <sub>w</sub> /5959.1	u <sub>w</sub> /6007.2	u <sub>w</sub> /6055.5	u <sub>w</sub> /6104.0	u <sub>w</sub> /6152.7	u <sub>w</sub> /6201.6	u <sub>w</sub> /6250.7	u <sub>w</sub> /6300.0	u <sub>w</sub> /6349.5	u <sub>w</sub> /6399.2	u <sub>w</sub> /6449.1	u <sub>w</sub> /6499.2	u <sub>w</sub> /6549.5	u <sub>w</sub> /6600.0	u <sub>w</sub> /6650.7	u <sub>w</sub> /6701.6	u <sub>w</sub> /6752.7	u <sub>w</sub> /6804.0	u <sub>w</sub> /6855.5	u <sub>w</sub> /6907.2	u <sub>w</sub> /6959.1	u <sub>w</sub> /7011.2	u <sub>w</sub> /7063.5	u <sub>w</sub> /7116.0	u <sub>w</sub> /7168.7	u <sub>w</sub> /7221.6	u <sub>w</sub> /7274.7	u <sub>w</sub> /7328.0	u <sub>w</sub> /7381.5	u <sub>w</sub> /7435.2	u <sub>w</sub> /7489.1	u <sub>w</sub> /7543.2	u <sub>w</sub> /7597.5	u <sub>w</sub> /7652.0	u <sub>w</sub> /7706.7	u <sub>w</sub> /7761.6	u <sub>w</sub> /7816.7	u <sub>w</sub> /7872.0	u <sub>w</sub> /7927.5	u <sub>w</sub> /7983.2	u <sub>w</sub> /8039.1	u <sub>w</sub> /8095.2	u <sub>w</sub> /8151.5	u <sub>w</sub> /8208.0	u <sub>w</sub> /8264.7	u <sub>w</sub> /8321.6	u <sub>w</sub> /8378.7	u <sub>w</sub> /8436.0	u <sub>w</sub> /8493.5	u <sub>w</sub> /8551.2	u <sub>w</sub> /8609.1	u <sub>w</sub> /8667.2	u <sub>w</sub> /8725.5	u <sub>w</sub> /8784.0	u <sub>w</sub> /8842.7	u <sub>w</sub> /8901.6	u <sub>w</sub> /8960.7	u <sub>w</sub> /9020.0	u <sub>w</sub> /9079.5	u <sub>w</sub> /9139.2	u <sub>w</sub> /9199.1	u <sub>w</sub> /9259.2	u <sub>w</sub> /9319.5	u <sub>w</sub> /9379.2	u <sub>w</sub> /9439.1	u <sub>w</sub> /9499.2	u <sub>w</sub> /9559.5	u <sub>w</sub> /9619.2	u <sub>w</sub> /9679.1	u <sub>w</sub> /9739.2	u <sub>w</sub> /9799.5	u <sub>w</sub> /9859.2	u <sub>w</sub> /9919.1	u <sub>w</sub> /9979.2	u <sub>w</sub> /10039.5	u <sub>w</sub> /10099.2	u <sub>w</sub> /10159.1	u <sub>w</sub> /10219.2	u <sub>w</sub> /10279.5	u <sub>w</sub> /10339.2	u <sub>w</sub> /10399.1	u <sub>w</sub> /10459.2	u <sub>w</sub> /10519.5	u <sub>w</sub> /10579.2	u <sub>w</sub> /10639.1	u <sub>w</sub> /10699.2	u <sub>w</sub> /10759.5	u <sub>w</sub> /10819.2	u <sub>w</sub> /10879.1	u <sub>w</sub> /10939.2	u <sub>w</sub> /10999.5	u <sub>w</sub> /11059.2	u <sub>w</sub> /11119.1	u <sub>w</sub> /11179.2	u <sub>w</sub> /11239.5	u <sub>w</sub> /11299.2	u <sub>w</sub> /11359.1	u <sub>w</sub> /11419.2	u <sub>w</sub> /11479.5	u <sub>w</sub> /11539.2	u <sub>w</sub> /11599.1	u <sub>w</sub> /11659.2	u <sub>w</sub> /11719.5	u <sub>w</sub> /11779.2	u <sub>w</sub> /11839.1	u <sub>w</sub> /11899.2	u <sub>w</sub> /11959.5	u <sub>w</sub> /12019.2	u <sub>w</sub> /12079.1	u <sub>w</sub> /12139.2	u <sub>w</sub> /12199.5	u <sub>w</sub> /12259.2	u <sub>w</sub> /12319.1	u <sub>w</sub> /12379.2	u <sub>w</sub> /12439.5	u <sub>w</sub> /12499.2	u <sub>w</sub> /12559.1	u <sub>w</sub> /12619.2	u <sub>w</sub> /12679.5	u <sub>w</sub> /12739.2	u <sub>w</sub> /12799.1	u <sub>w</sub> /12859.2	u <sub>w</sub> /12919.5	u <sub>w</sub> /12979.2	u <sub>w</sub> /13039.1	u <sub>w</sub> /13099.2	u <sub>w</sub> /13159.5	u <sub>w</sub> /13219.2	u <sub>w</sub> /13279.1	u <sub>w</sub> /13339.2	u <sub>w</sub> /13399.5	u <sub>w</sub> /13459.2	u <sub>w</sub> /13519.1	u <sub>w</sub> /13579.2	u <sub>w</sub> /13639.5	u <sub>w</sub> /13699.2	u <sub>w</sub> /13759.1	u <sub>w</sub> /13819.2	u <sub>w</sub> /13879.5	u <sub>w</sub> /13939.2	u <sub>w</sub> /13999.1	u <sub>w</sub> /14059.2	u <sub>w</sub> /14119.5	u <sub>w</sub> /14179.2	u <sub>w</sub> /14239.1	u <sub>w</sub> /14299.2	u <sub>w</sub> /14359.5	u <sub>w</sub> /14419.2	u <sub>w</sub> /14479.1	u <sub>w</sub> /14539.2	u <sub>w</sub> /14599.5	u <sub>w</sub> /14659.2	u <sub>w</sub> /14719.1	u <sub>w</sub> /14779.2	u <sub>w</sub> /14839.5	u <sub>w</sub> /14899.2	u <sub>w</sub> /14959.1	u <sub>w</sub> /15019.2	u <sub>w</sub> /15079.5	u <sub>w</sub> /15139.2	u <sub>w</sub> /15199.1	u <sub>w</sub> /15259.2	u <sub>w</sub> /15319.5	u <sub>w</sub> /15379.2	u <sub>w</sub> /15439.1	u <sub>w</sub> /15499.2	u <sub>w</sub> /15559.5	u <sub>w</sub> /15619.2	u <sub>w</sub> /15679.1	u <sub>w</sub> /15739.2	u <sub>w</sub> /15799.5	u <sub>w</sub> /15859.2	u <sub>w</sub> /15919.1	u <sub>w</sub> /15979.2	u <sub>w</sub> /16039.5	u <sub>w</sub> /16099.2	u <sub>w</sub> /16159.1	u <sub>w</sub> /16219.2	u <sub>w</sub> /16279.5	u <sub>w</sub> /16339.2	u <sub>w</sub> /16399.1	u <sub>w</sub> /16459.2	u <sub>w</sub> /16519.5	u <sub>w</sub> /16579.2	u <sub>w</sub> /16639.1	u <sub>w</sub> /16699.2	u <sub>w</sub> /16759.5	u <sub>w</sub> /16819.2	u <sub>w</sub> /16879.1	u <sub>w</sub> /16939.2	u <sub>w</sub> /16999.5	u <sub>w</sub> /17059.2	u <sub>w</sub> /17119.1	u <sub>w</sub> /17179.2	u <sub>w</sub> /17239.5	u <sub>w</sub> /17299.2	u <sub>w</sub> /17359.1	u <sub>w</sub> /17419.2	u <sub>w</sub> /17479.5	u <sub>w</sub> /17539.2	u <sub>w</sub> /17599.1	u <sub>w</sub> /17659.2	u <sub>w</sub> /17719.5	u <sub>w</sub> /17779.2	u <sub>w</sub> /17839.1	u <sub>w</sub> /17899.2	u <sub>w</sub> /17959.5	u <sub>w</sub> /18019.2	u <sub>w</sub> /18079.1	u <sub>w</sub> /18139.2	u <sub>w</sub> /18199.5	u <sub>w</sub> /18259.2	u <sub>w</sub> /18319.1	u <sub>w</sub> /18379.2	u <sub>w</sub> /18439.5	u <sub>w</sub> /18499.2	u <sub>w</sub> /18559.1	u <sub>w</sub> /18619.2	u <sub>w</sub> /18679.5	u <sub>w</sub> /18739.2	u <sub>w</sub> /18799.1	u <sub>w</sub> /18859.2	u <sub>w</sub> /18919.5	u <sub>w</sub> /18979.2	u <sub>w</sub> /19039.1	u <sub>w</sub> /19099.2	u <sub>w</sub> /19159.5	u <sub>w</sub> /19219.2	u <sub>w</sub> /19279.1	u <sub>w</sub> /19339.2	u <sub>w</sub> /19399.5	u <sub>w</sub> /19459.2	u <sub>w</sub> /19519.1	u <sub>w</sub> /19579.2	u <sub>w</sub> /19639.5	u <sub>w</sub> /19699.2	u <sub>w</sub> /19759.1	u <sub>w</sub> /19819.2	u <sub>w</sub> /19879.5	u <sub>w</sub> /19939.2	u <sub>w</sub> /19999.1	u <sub>w</sub> /20059.2	u <sub>w</sub> /20119.5	u <sub>w</sub> /20179.2	u <sub>w</sub> /20239.1	u <sub>w</sub> /20299.2	u <sub>w</sub> /20359.5	u <sub>w</sub> /20419.2	u <sub>w</sub> /20479.1	u <sub>w</sub> /20539.2	u <sub>w</sub> /20599.5	u <sub>w</sub> /20659.2	u <sub>w</sub> /20719.1	u <sub>w</sub> /20779.2	u <sub>w</sub> /20839.5	u <sub>w</sub> /20899.2	u <sub>w</sub> /20959.1	u <sub>w</sub> /21019.2	u <sub>w</sub> /21079.5	u <sub>w</sub> /21139.2	u <sub>w</sub> /21199.1	u <sub>w</sub> /21259.2	u <sub>w</sub> /21319.5	u <sub>w</sub> /21379.2	u <sub>w</sub> /21439.1	u <sub>w</sub> /21499.2	u <sub>w</sub> /21559.5	u <sub>w</sub> /21619.2	u <sub>w</sub> /21679.1	u <sub>w</sub> /21739.2	u <sub>w</sub> /21799.5	u <sub>w</sub> /21859.2	u <sub>w</sub> /21919.1	u <sub>w</sub> /21979.2	u <sub>w</sub> /22039.5	u <sub>w</sub> /22099.2	u <sub>w</sub> /22159.1	u <sub>w</sub> /22219.2	u <sub>w</sub> /22279.5	u <sub>w</sub> /22339.2	u <sub>w</sub> /22399.1	u <sub>w</sub> /22459.2	u <sub>w</sub> /22519.5	u <sub>w</sub> /22579.2	u <sub>w</sub> /22639.1	u <sub>w</sub> /22699.2	u <sub>w</sub> /22759.5	u <sub>w</sub> /22819.2	u <sub>w</sub> /22879.1	u <sub>w</sub> /22939.2	u <sub>w</sub> /22999.5	u <sub>w</sub> /23059.2	u <sub>w</sub> /23119.1	u <sub>w</sub> /23179.2	u <sub>w</sub> /23239.5	u <sub>w</sub> /23299.2	u <sub>w</sub> /23359.1	u <sub>w</sub> /23419.2	u <sub>w</sub> /23479.5	u <sub>w</sub> /23539.2	u <sub>w</sub> /23599.1	u <sub>w</sub> /23659.2	u <sub>w</sub> /23719.5	u <sub>w</sub> /23779.2	u <sub>w</sub> /23839.1	u <sub>w</sub> /23899.2	u <sub>w</sub> /23959.5	u <sub>w</sub> /24019.2	u <sub>w</sub> /24079.1	u <sub>w</sub> /24139.2	u <sub>w</sub> /24199.5	u <sub>w</sub> /24259.2	u <sub>w</sub> /24319.1	u <sub>w</sub> /24379.2	u <sub>w</sub> /24439.5	u <sub>w</sub> /24499.2	u <sub>w</sub> /24559.1	u <sub>w</sub> /24619.2

**Appendix A: Emission Calculations**  
**Criteria Pollutants - Internal Combustion Engines - Diesel Fuel**

**Company Name:** The Levy Company - Port of Indiana  
**Address City IN Zip:** 900 George Nelson Drive, Portage, IN 46368  
**County:** Porter  
**SIC Code:** 3295  
**Minor Source Operating Permit Number:** M127-31139-00124  
**Calculations Prepared By:** ST Environmental LLC  
**Reviewer:** APT  
**Date:** 11/17/2011

Sulfur Content (S) of Fuel (% by weight)

**Reciprocating Internal Combustion Engines - Diesel Fuel**  
**Output Rating (<600 HP)**

Emission Unit ID	Capacity (KW/hr)	Capacity (HP)	hp-hr/yr	Diesel Industrial Engines Emission Factors (lb/hp-hr)						
				PM	PM-10	PM-2.5	SOx	NOx	VOC	CO
				2.20E-03	2.20E-03	2.20E-03	2.05E-03	3.10E-02	2.47E-03	6.68E-03
Potential Emissions (TPY)										
	PM	PM-10	PM-2.5	SOx	NOx	VOC	CO			
<i>E1</i>	325	168.00	1,471,680	1.619	1.619	1.619	1.508	22.811	1.818	4.915

Emission Unit ID	Pollutant			Summed Potential Emissions in tons/yr	8.54E+02
<i>Existing Generator 3</i>	CO2	CH4	N2O		
Emission Factor in lb/hp-hr	1.16E+00	6.35E-05	9.30E-06	CO2e Total in tons/yr	856.68
Potential Emission in tons/yr	8.54E+02	4.67E-02	6.84E-03		

**Methodology**

For HP < 600

HP=Kw/hr\*1.344825737

hp-hr/yr = hp \* 500 hr/yr for emergency generators

hp-hr/yr = hp \* 8760 hr/yr for regularly operating generators

Emission Factors are from AP 42, Chapter 3.4, Table 3.4-1, SCC #2-02-004-01

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

CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (21) + N2O Potential Emission ton/yr x N2O GWP

Total Potential Emissions	PM	PM-10	PM-2.5	SOx	NOx	VOC	CO	CO2e
	1.619	1.619	1.619	1.508	22.811	1.818	4.915	856.68

**Appendix A: Emission Calculations**  
**HAPs - Internal Combustion Engines - Diesel Fuel**

**Company Name:** The Levy Company - Port of Indiana  
**Address City IN Zip:** 900 George Nelson Drive, Portage, IN 46368  
**County:** Porter  
**SIC Code:** 3295  
**Minor Source Operating Permit Number:** M127-31139-00124  
**Calculations Prepared By:** ST Environmental LLC  
**Reviewer:** APT  
**Date:** 11/17/2011

**Reciprocating Internal Combustion Engines - Diesel Fuel**  
**Output Rating (<600 HP)**

Emission Unit ID	Capacity (KW/hr)	Capacity (HP)	hp-hr/yr	Diesel Industrial Engines Emission Factors (lb/hp-hr)							
				Benzene	Toluene	Xylene	1,3-Butadiene	Formaldehyde	Acetaldehyde	Acrolein	Total PAH
				6.53E-06	2.86E-06	2.00E-06	2.74E-07	8.26E-06	5.37E-06	6.48E-07	1.18E-06
Potential Emissions (TPY)											
				Benzene	Toluene	Xylene	1,3-Butadiene	Formaldehyde	Acetaldehyde	Acrolein	Total PAH
E1	325	437.07	3,828,719	0.013	0.005	0.004	0.001	0.016	0.010	0.001	0.002

\*\*\*PAH = Polyaromatic Hydrocarbon (PAHs are considered HAPs, since they are considered Polycyclic Organic Matter)

**Methodology**

For HP < 600

HP=Kw/hr\*1.344825737

hp-hr/yr = hp \* 8760 hr/yr

Emission Factors are from AP 42, Chapter 3.3, Table 3.3-1, SCC #2-02-001-02 and 2-03-001-01

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

Total Potential Emissions								
Benzene	Toluene	Xylene	1,3-Butadiene	Formaldehyde	Acetaldehyde	Acrolein	Total PAH	Total HAPs
0.013	0.005	0.004	0.001	0.016	0.010	0.001	0.002	0.052

**Appendix A: Emission Calculations  
Emission Factor List**

**Company Name:** The Levy Company - Port of Indiana  
**Address:** 900 George Nelson Drive, Portage, IN 46368  
**County:** Porter  
**SIC Code:** 3295  
**Minor Source Operating Permit Number:** M127-31139-00124  
**Calculations Prepared By:** ST Environmental LLC  
**Reviewer:** APT  
**Date:** 11/17/2011

AP-42 Table 11.19.2-2, 8/2004 version Source	Emission factors (lb/ton)		
	PM	PM-10	PM-2.5
Primary Crushing (SCC 3-05-020-01)	ND	ND	ND
Primary Crushing (controlled) (SCC 3-05-020-01)	ND	ND	ND
Secondary Crushing (SCC 3-05-020-02)	ND	ND	ND
Secondary Crushing (controlled) (SCC 3-05-020-02)	ND	ND	ND
Tertiary Crushing (SCC 3-050030-03)	0.0054	0.0024	ND
Tertiary Crushing (controlled) (SCC 3-05-020-03)	0.0012	0.00054	0.0001
Fines Crushing (SCC 3-05-020-05)	0.039	0.015	ND
Fines Crushing (controlled) (SCC 3-05-020-05)	0.003	0.0012	0.00007
Screening (SCC 3-05-020-02, 03)	0.025	0.0087	ND
Screening (controlled) (SCC 3-05-020-02, 03)	0.0022	0.00074	0.00005
Fines Screening (SCC 3-05-020-21)	0.3	0.072	ND
Fines Screening (controlled) (SCC 3-05-020-21)	0.0036	0.0022	ND
Conveyor Transfer Point (SCC 3-05-020-06)	0.003	0.0011	ND
Conveyor Transfer Point (controlled) (SCC 3-05-020-06)	0.00014	0.000046	0.000013
Wet Drilling - Unfragmented Stone (SCC 3-05-020-10)	ND	0.00008	ND
Truck Unloading -Fragmented Stone (SCC 3-05-020-31)	ND	0.000016	ND
Truck Unloading - Conveyor, crushed stone (SCC 3-05-020-32)	ND	0.0001	ND

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

Source Determination, Appendix B to the Technical Support Document (TSD) for a New Source Construction and Minor Source Operating Permit (MSOP)

<b>Source Name:</b>	The Levy Company - Port of Indiana
<b>Source Location:</b>	900 George Nelson Drive, Portage, IN 46368
<b>County:</b>	Porter
<b>SIC Code:</b>	3295
<b>Minor Source Operation Permit No.:</b>	M127-31139-00124
<b>Permit Reviewer:</b>	APT

Source Determination

The Levy Company, Inc formerly operated a stationary blast furnace and basic oxygen furnace slag finishing operation and a separation plant as a contractor of ArcelorMittal Burns Harbor, LLC. The Levy Company is no longer performing any work for the ArcelorMittal Burns Harbor plant. The Levy Company will continue to operate its screening plant at its property located about two miles from the ArcelorMittal Burns Harbor plant under a new Minor Source Operating Permit. IDEM, OAQ had previously determined that the Levy and ArcelorMittal plants were one major source. Since their relationship has changed significantly, IDEM, OAQ has reexamined whether the Levy plant is part of the same major source with the ArcelorMittal Burns Harbor plant. The term "major source" is defined at 326 IAC 2-7-1(22). In order for two or more plants to be considered one major source, they must meet all three of the following criteria:

- (1) the plants must be under common ownership or common control;
- (2) the plants must have the same two-digit Standard Industrial Classification (SIC) Code or one must serve as a support facility for the other; and,
- (3) the plants must be located on contiguous or adjacent properties.

The Levy plant and the ArcelorMittal Burns Harbor plant have different corporate owners. The corporations that own each plant do not have common directors on their board of directors and they do not have any corporate officers in common. There is no common ownership between the two plants.

IDEM's Nonrule Policy Document Air-005 applies to the definition of "major source" in 326 IAC 2-7-1(22). IDEM's Nonrule Policy Document Air-005 sets out two independent tests to determine if common control exists when there is no common ownership. The first test, the auxiliary activity test, determines whether one source performs an auxiliary activity which directly serves the purpose of the primary activity and whether the owner or operator of the primary activity has a major role in the day-to-day operations of the auxiliary activity. An auxiliary activity directly serves the purpose of a primary activity by supplying a necessary raw material to the primary activity or performing an integral part of the production process for the primary activity.

Day-to-day control of the auxiliary activity by the primary activity may be evidenced by several factors, including:

- Is a majority of the output of the auxiliary activity provided to the primary activity?
- Can the auxiliary activity contract to provide its products/services to a third-party without the consent of the primary activity?
- Can the primary activity assume control of the auxiliary activity under certain circumstances?
- Is the auxiliary activity required to complete periodic reports to the primary activity?

If one or a combination of these questions is answered affirmatively, common control may exist.

The Levy plant will not provide any raw material or perform any service or other work for the ArcelorMittal Burns Harbor plant. Each plant is free to contract with third parties, neither plant

Source Determination

can assume control of the other and neither is required to submit periodic reports to the other. The first common control test is therefore not met.

The second common control test in the nonrule policy is the but/for test. This test focuses on whether the auxiliary activity would exist absent the needs of the primary activity. If all or a majority of the output of the auxiliary activity is consumed by the primary activity the but/for test is satisfied. Neither plant will supply any output to the other plant. If either plant were to shut down the other would be able to continue to operate. Therefore the second common control test is also not met. IDEM finds that the two plants are not under common control. Since neither common ownership nor common control exists the first part of the definition of major source is not met.

The SIC Code Manual of 1987 sets out how to determine the proper SIC Code for each type of business. More information about SIC Codes is available at [http://www.osha.gov/pls/imis/sic\\_manual.html](http://www.osha.gov/pls/imis/sic_manual.html) on the Internet. The Levy plant has the two-digit SIC Code 32 for the Major Group Stone, Clay, Glass, and Concrete Products. The ArcelorMittal Burns Harbor plant has the two-digit SIC Code 33 for the Major Group Primary Metal Industries. The two plants do not have the same two-digit SIC Code.

A plant is a support facility to another plant if it dedicates 50% or more of its output to the other plant. Neither plant will send any output to the other. Therefore, neither plant is in a support relationship with the other. Therefore, the plants do not meet the second part of the major source definition.

The Levy plant property is approximately two (2) miles from the ArcelorMittal Burns Harbor plant property. There is other property separating the plants. Since they are not on the same or contiguous properties, IDEM examined whether the plants are on adjacent properties.

The term "adjacent" is not defined in Indiana's air permitting rules. IDEM, OAQ has located a May 21, 1988 letter from U.S. EPA Region 8 to the Utah Division of Air Quality and a U.S. EPA Region 5 letter dated October 18, 2010 to Scott Huber at Summit Petroleum Corporation, that discuss the term "adjacent". These letters are in no way binding on IDEM, OAQ, but they are persuasive in that they illustrate a longstanding analysis used to determine if two sources are "adjacent"; going as far back as the preamble to the 1980 NSR program definition of a source. U.S. EPA's consistent approach is that any evaluation of what is "adjacent" must relate to the guiding principal of a common sense notion of "source". The evaluation should look at whether the distance between the plants is sufficiently small that it enables them to operate as a single source. Some sample questions are:

1. Are materials routinely transferred between the plants?
2. Do managers or other workers frequently shuttle back and forth to be involved actively in the plants?
3. Is the production process itself split in any way between the plants?

Source Determination

There are no materials that will be transferred between the plants. The plants will have separate managers and separate production staff. The production process itself will not be split between the plants. The plants will not be close enough to enable them to operate as one source. The plants are therefore not adjacent and do not meet the third part of the major source definition.

Since the plants do not meet any of the three parts of the major source definition, IDEM, OAQ has determined that the Levy plant is not part of the same major source as the ArcelorMittal Burns Harbor plant.



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

*Mitchell E. Daniels Jr.*  
**Governor**

*Thomas W. Easterly*  
**Commissioner**

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

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

TO: Tom Green  
The Levy Company Inc.  
51445 West 12 Mile Road  
Wixom, MI 48393

DATE: January 4, 2012

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

SUBJECT: Final Decision  
New Construction MSOP  
127 - 31139 - 00124

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

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

A copy of the final decision and supporting materials has also been sent via standard mail to:  
OAQ Permits Branch Interested Parties List

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

Final Applicant Cover letter.dot 11/30/07



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Toll Free (800) 451-6027  
[www.idem.IN.gov](http://www.idem.IN.gov)

January 4, 2012

TO: Westchester Public Library

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

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

**Applicant Name: The Levy Company Inc.**  
**Permit Number: 127 - 31139 - 00124**

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

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

Enclosures  
Final Library.dot 11/30/07



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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Indianapolis, Indiana 46204  
(317) 232-8603  
Toll Free (800) 451-6027  
[www.idem.IN.gov](http://www.idem.IN.gov)

TO: Interested Parties / Applicant

DATE: January 4, 2012

RE: The Levy Company Inc. / 127 - 31139 - 00124

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

In order to conserve paper and reduce postage costs, IDEM's Office of Air Quality is now sending many permit decisions on CDs in Adobe PDF format. The enclosed CD contains information regarding the company named above.

This permit is also available on the IDEM website at:  
<http://www.in.gov/ai/appfiles/idem-caats/>

If you would like to request a paper copy of the permit document, please contact IDEM's central file room at:

Indiana Government Center North, Room 1201  
100 North Senate Avenue, MC 50-07  
Indianapolis, IN 46204  
Phone: 1-800-451-6027 (ext. 4-0965)  
Fax (317) 232-8659

**Please Note:** *If you feel you have received this information in error, or would like to be removed from the Air Permits mailing list, please contact Patricia Pear with the Air Permits Administration Section at 1-800-451-6027, ext. 3-6875 or via e-mail at [PPEAR@IDEM.IN.GOV](mailto:PPEAR@IDEM.IN.GOV).*

Enclosures  
CD Memo.dot 11/14/08

# Mail Code 61-53

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1		Tom Green The Levy Company Inc 51445 West 12 Mile Road Wixom MI 48393 (Source CAATS) Via confirmed delivery										
2		Westchester Public Library 200 W Indiana Ave Chesterton IN 46304-3122 (Library)										
3		Laurence A. McHugh Barnes & Thornburg 100 North Michigan South Bend IN 46601-1632 (Affected Party)										
4		Porter County Board of Commissioners 155 Indiana Ave, Ste 205 Valparaiso IN 46383 (Local Official)										
5		Porter County Health Department 155 Indiana Ave, Suite 104 Valparaiso IN 46383-5502 (Health Department)										
6		Shawn Sobocinski 3229 E. Atlanta Court Portage IN 46368 (Affected Party)										
7		Mr. Ed Dybel 2440 Schrage Avenue Whiting IN 46394 (Affected Party)										
8		Ms. Carolyn Marsh Lake Michigan Calumet Advisory Council 1804 Oliver St Whiting IN 46394-1725 (Affected Party)										
9		Mr. Dee Morse National Park Service 12795 W Alameda Pky, P.O. Box 25287 Denver CO 80225-0287 (Affected Party)										
10		Mr. Joseph Virgil 128 Kinsale Avenue Valparaiso IN 46385 (Affected Party)										
11		Mark Coleman 9 Locust Place Ogden Dunes IN 46368 (Affected Party)										
12		Mr. Chris Hernandez Pipefitters Association, Local Union 597 8762 Louisiana St., Suite G Merrillville IN 46410 (Affected Party)										
13		Eric & Sharon Haussman 57 Shore Drive Ogden Dunes IN 46368 (Affected Party)										
14		Joseph Hero 11723 S Oakridge Drive St. John IN 46373 (Affected Party)										
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1		Mark 26545 CR 52 Nappanee IN 46550 (Affected Party)										
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3												
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