



Joseph E. Kernan  
Governor

Lori F. Kaplan  
Commissioner

July 23, 2004

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

TO: Interested Parties / Applicant

RE: The Levy Company ISG Burns Harbor / 127-19102-00026

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

### Notice of Decision: Approval - Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-17-3-4 and 326 IAC 2, this approval is effective immediately, unless a petition for stay of effectiveness is filed and granted, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3-7 and IC 13-15-7-3 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 Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 1049, Indianapolis, IN 46204, **within eighteen (18) calendar days of the mailing of this notice.** The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

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

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

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

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

Enclosures  
FNPER-MOD.dot 9/16/03



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**July 23, 2004**

Mr. Dave Oram  
The Levy Company @ ISG Burns Harbor  
P.O. Box 540  
Portage, Indiana 46368

Re: Minor Source Modification No:  
127-19102-00026

Dear Mr. Oram:

The Levy Company @ ISG Burns Harbor applied for a Part 70 operating permit on December 6, 1996 for a slag finishing plant. An application to modify the source was received on May 5, 2004. Pursuant to 326 IAC 2-7-10.5 the following emission units are approved for construction at the source:

- (a) One 24 inch by 65 foot conveyor (T1), with a capacity of 110 tons per hour.
- (b) One 24 inch by 65 foot conveyor (T2), with a capacity of 200 tons per hour.
- (c) One 30 inch by 30 foot conveyor (T3), with a capacity of 48 tons per hour.
- (d) One 30 inch conveyor (A2), with a capacity of 250 tons per hour;

The source also requested the corrections to the following existing units as permitted under the Significant Source Modification no. 127-15319-00026, issued May 30, 2002.

...

- (b) One ~~36~~ **30** inch by **95 foot** conveyor (B), with a capacity of 250 tons per hour;
- (c) One ~~36~~ **30** inch conveyors (A1), with a capacity of 250 tons per hour;
- (d) One 6 foot by 16 foot ~~SD~~ **D.D.** Screen, with a capacity of 250 tons per hour;
- (e) One 30 inch by ~~400~~ **150** foot Stacker conveyor (C), with a capacity of 48 tons per hour;
- (m) One ~~24~~ **36** inch by 150 foot radial stack conveyor (S4), with a capacity of 110 tons per hour;

...

These corrections shall be incorporated into the pending Part 70 Permit.

The proposed Minor Source Modification approval will be incorporated into the pending Part 70 permit application pursuant to 326 IAC 2-7-10.5(l)(3). The source may begin operation upon issuance of the source modification approval.



Pursuant to Contract No. A305-0-00-36, IDEM, OAQ has assigned the processing of this application to Eastern Research Group, Inc., (ERG). Therefore, questions should be directed to Sanober Durrani, ERG, 1600 Perimeter Park Drive, Morrisville, North Carolina 27560, or call (919) 468-7810 to speak directly to Ms. Durrani. Questions may also be directed to Duane Van Laningham at IDEM, OAQ, 100 North Senate Avenue, P.O. Box 6015, Indianapolis, Indiana, 46206-6015, or call (800) 451-6027, and ask for Duane Van Laningham, or extension 3-6878, or dial (317) 233-6878.

Sincerely,  
Original signed by Paul Dubenetzky

Paul Dubenetzky, Chief  
Permits Branch  
Office of Air Quality

Attachments  
ERG/SD

cc: File - Porter County  
U.S. EPA, Region V  
Porter County Health Department  
Northwest Regional Office  
Air Compliance Section Inspector - Rick Massoels/Ramesh Tejuja  
Compliance Data Section  
Administrative and Development - Sara Cloe  
Technical Support and Modeling - Michele Boner



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## **PART 70 MINOR SOURCE MODIFICATION OFFICE OF AIR QUALITY**

**The Levy Company @ ISG Burns Harbor  
U.S. Highway 12  
Burns Harbor, Indiana 46368**

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

This approval is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

|   |                              |
|---|------------------------------|
| Minor Source Modification No.: 127-19102-00026  |                              |
| Issued by: Original signed by Paul Dubenetzky<br>Paul Dubenetzky, Branch Chief<br>Office of Air Quality | Issuance Date: July 23, 2004 |



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## SECTION A SOURCE SUMMARY

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

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

---

The Permittee owns and operates a stationary blast furnace slag separation plant.

|                              |   |
|------------------------------|---|
| Responsible Official:        | Dave Oram   |
| Source Address:              | U.S. Highway 12, Burns Harbor, Indiana 46368  |
| Mailing Address:             | P.O. Box 540, Portage, Indiana 46368  |
| General Source Phone Number: | (219) 787-8563  |
| SIC Code:                    | 3295  |
| County Location:             | Porter  |
| Source Location Status:      | Nonattainment for ozone under the 1-hour standard<br>Nonattainment for ozone under the 8-hour standard<br>Attainment for all other criteria pollutants  |
| Source Status:               | Part 70 Permit Program<br>Major Source, under PSD and Nonattainment NSR;<br>Major Source, Section 112 of the Clean Air Act<br>1 of 28 Source Categories |

### A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]

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This stationary source is approved to construct and operate the following emission units and pollution control devices:

One Finishing plant, processing blast furnace slag, controlled by water suppression, consisting of the following pieces of equipment:

- (v) One 24 inch by 65 foot conveyor (T1), with a capacity of 110 tons per hour.
- (w) One 24 inch by 65 foot conveyor (T2), with a capacity of 200 tons per hour.
- (x) One 30 inch by 30 foot conveyor (T3), with a capacity of 48 tons per hour.
- (y) One 30 inch conveyor (A2), with a capacity of 250 tons per hour.

### A.3 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]

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This stationary source does not currently have any insignificant activities, as defined in 326 IAC 2-7-1(21).

### A.4 Part 70 Permit Applicability [326 IAC 2-7-2]

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This stationary source is required to have a Part 70 permit by 326 IAC 2-7-2 (Applicability) because:

- (a) It is a major source, as defined in 326 IAC 2-7-1(22);
- (b) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 - Applicability).

A.5 Part 70 Source Definition [326 IAC 2-7-1(22)]

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- (a) Bethlehem Steel Corporation owns and operates the steel plant, located on U.S. Highway 12, Burns Harbor, Indiana; and
- (b) Levy Company (a contractor to Bethlehem Steel Corporation) owns and operates a slag separation and finishing facility located on U.S. Highway 12, Burns Harbor, Indiana.

IDEM has determined that Bethlehem Steel Corporation and the Levy Company facility located at the Burns Harbor plant are a single source under 326 IAC 2-7. These two plants are considered one source because the slag facility is located on Bethlehem Steel Corporations property and will use slag produced by Bethlehem Steel Corporation as its only source of raw material.

## **SECTION B                      GENERAL CONSTRUCTION CONDITIONS**

### **B.1      Definitions [326 IAC 2-7-1]**

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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 2-7) shall prevail.

### **B.2      Effective Date of the Permit [IC13-15-5-3]**

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

### **B.3      Revocation of Permits [326 IAC 2-1.1-9(5)][326 IAC 2-7-10.5(i)]**

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Pursuant to 326 IAC 2-1.1-9(5)(Revocation of Permits), the Commissioner may revoke this approval 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.4      Phase Construction Time Frame**

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Pursuant to 326 IAC 2-1.1-9(5)(Revocation of Permits), the IDEM may revoke this approval to construct if the:

- (a) Construction of conveyors A2, T1, T2, and T3 has not begun within eighteen (18) months from the effective date of this approval or if during the construction of conveyors A2, T1, T2, and T3, work is suspended for a continuous period of one (1) year or more.

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

## SECTION C GENERAL OPERATION CONDITIONS

### C.1 Certification [326 IAC 2-7-4(f)][326 IAC 2-7-6(1)][326 IAC 2-7-5(3)(C)]

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- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification.
- (c) A responsible official is defined at 326 IAC 2-7-1(34).

### C.2 Preventive Maintenance Plan [326 IAC 2-7-5(1),(3) and (13)] [326 IAC 2-7-6(1) and (6)] [326 IAC 1-6-3]

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- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) when operation begins, 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 Branch, Office of Air Quality  
100 North Senate Avenue, P. O. Box 6015  
Indianapolis, Indiana 46206-6015

The PMP and the PMP extension notification do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) The Permittee shall implement the PMPs as necessary to ensure that failure to implement a PMP does not cause or contribute to a violation of any limitation on emissions or potential to emit.
- (c) 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 contributes to any violation. The PMP does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (d) Records of preventive maintenance shall be retained for a period of at least five (5) years. These records shall be kept 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.

**C.3 Permit Amendment or Modification [326 IAC 2-7-11] [326 IAC 2-7-12]**

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(a) Permit amendments and modifications are governed by the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 whenever the Permittee seeks to amend or modify this permit.

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

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

Any such application shall be certified by the "responsible official" as defined by 326 IAC 2-7-1(34).

(c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

**C.4 Opacity [326 IAC 5-1]**

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Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary 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.5 Fugitive Dust Emissions [326 IAC 6-4]**

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The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions). 326 IAC 6-4-2(4) is not federally enforceable.

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

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Except as otherwise provided by statute or rule, or in this permit, all air pollution control equipment listed in this permit and used to comply with an applicable requirement shall be operated at all times that the emission units vented to the control equipment are in operation.

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

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

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

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

**C.8 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]**

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If required by Section D, all monitoring and record keeping requirements shall be implemented when operation begins. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment.

**C.9 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]**

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

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

**C.10 Compliance Response Plan - Preparation, Implementation, Records, and Reports [326 IAC 2-7-5] [326 IAC 2-7-6]**

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- (a) The Permittee is required to prepare a Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. A CRP shall be submitted to IDEM, OAQ upon request. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee, supplemented from time to time by the Permittee, maintained on site, and comprised of:
- (1) Reasonable response steps that may be implemented in the event that a response step is needed pursuant to the requirements of Section D of this permit; and an expected timeframe for taking reasonable response steps.
  - (2) If, at any time, the Permittee takes reasonable response steps that are not set forth in the Permittee's current Compliance Response Plan and the Permittee documents such response in accordance with subsection (e) below, the Permittee shall amend its Compliance Response Plan to include such response steps taken.
- (b) For each compliance monitoring condition of this permit, reasonable response steps shall be taken when indicated by the provisions of that compliance monitoring condition as follows:
- (1) Reasonable response steps shall be taken as set forth in the Permittee's current Compliance Response Plan; or
  - (2) If none of the reasonable response steps listed in the Compliance Response Plan is applicable or responsive to the excursion, the Permittee shall devise and implement additional response steps as expeditiously as practical. Taking such additional response steps shall not be considered a deviation from this permit so long as the Permittee documents such response steps in accordance with this condition.
  - (2) If the Permittee determines that additional response steps would necessitate that the emissions unit or control device be shut down, the IDEM, OAQ shall be promptly notified of the expected date of the shut down, the status of the applicable compliance monitoring parameter with respect to normal, and the results of the actions taken up to the time of notification.
  - (3) Failure to take reasonable response steps shall constitute a violation of the permit.
- (c) The Permittee is not required to take any further response steps for any of the following reasons:
- (1) A false reading occurs due to the malfunction of the monitoring equipment and prompt action was taken to correct the monitoring equipment.
  - (2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously

submitted a request for a minor permit modification to the permit, and such request has not been denied.

- (3) An automatic measurement was taken when the process was not operating.
- (4) The process has already returned or is returning to operating within "normal" parameters and no response steps are required.
- (d) When implementing reasonable steps in response to a compliance monitoring condition, if the Permittee determines that an exceedance of an emission limitation has occurred, the Permittee shall report such deviations pursuant to Section B-Deviations from Permit Requirements and Conditions.
- (e) The Permittee shall record all instances when response steps are taken. In the event of an emergency, the provisions of 326 IAC 2-7-16 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.
- (f) Except as otherwise provided by a rule or provided specifically in Section D, all monitoring as required in Section D shall be performed when the emission unit is operating, except for time necessary to perform quality assurance and maintenance activities.

C.11 Emergency Provisions [326 IAC 2-7-16]

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:
  - (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
  - (2) The permitted facility was at the time being properly operated;
  - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
  - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, and the Northwest Regional Office within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality,  
Compliance Section), or  
Telephone Number: 317-233-5674 (ask for Compliance Section)

Northwest Regional  
Telephone Number: 219-757-0265  
Toll Free: 888-209-8892  
Facsimile Number: 219-757-0267

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

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

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-7-5(3)(C)(ii) and must contain the following:

- (A) A description of the emergency;
- (B) Any steps taken to mitigate the emissions; and
- (C) Corrective actions taken.

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

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) IDEM, OAQ, may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4-(c)(10) be revised in response to an emergency.
- (f) Failure to notify IDEM, OAQ, by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.
- (g) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
- (h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report.

C.12 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5]  
[326 IAC 2-7-6]

- 
- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.
  - (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.

- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The response action documents submitted pursuant to this condition do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

#### **C.13 General Record Keeping Requirements [326 IAC 2-7-5(3)][326 IAC 2-7-6]**

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

#### **C.14 General Reporting Requirements [326 IAC 2-7-5(3)(C)]**

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- (a) The reports required by conditions in Section D of this permit shall be submitted to:  
  
Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Quality  
100 North Senate Avenue, P. O. Box 6015  
Indianapolis, Indiana 46206-6015
- (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) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (d) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. Reporting periods are based on calendar years.

**SECTION D.1 FACILITY OPERATION CONDITIONS**

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

One Finishing plant, processing blast furnace slag, controlled by water suppression, consisting of the following pieces of equipment:

- (v) One 24 inch by 65 foot conveyor (T1), with a capacity of 110 tons per hour.
- (w) One 24 inch by 65 foot conveyor (T2), with a capacity of 200 tons per hour.
- (x) One 30 inch by 30 foot conveyor (T3), with a capacity of 48 tons per hour.
- (y) One 30 inch conveyor (A2), with a capacity of 250 tons per hour.

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

**D.1.1 Particulate [326 IAC 6-3-2]**

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate emissions from the finishing plant unit operations shall be limited as shown in the table below.

| Process     | Throughput Rate (tons/hour) | Particulate Emission Limit (lbs/hour) |
|-------------|-----------------------------|---------------------------------------|
| Conveyor A2 | 250                         | 61.0                                  |
| Conveyor T1 | 110                         | 52.2                                  |
| Conveyor T2 | 200                         | 58.5                                  |
| Conveyor T3 | 48                          | 44.2                                  |

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

$$E = 55 P^{0.11} - 40 \quad \text{where } E = \text{rate of emission in pounds per hour and} \\ P = \text{process weight rate in tons per hour}$$

**D.1.2 PSD Minor Limit [326 IAC 2-2]**

(a) Pursuant to 326 IAC 2-2 (Prevention of Significant Deterioration), the particulate emission rate from the finishing plant unit operations shall not exceed the values as shown below:

| Process     | Emission Limit (lb/ton) |          |
|-------------|-------------------------|----------|
|             | PM                      | PM10     |
| Conveyor A2 | 0.0001008               | 0.000048 |
| Conveyor T1 | 0.0001008               | 0.000048 |
| Conveyor T2 | 0.0001008               | 0.000048 |
| Conveyor T3 | 0.0001008               | 0.000048 |

These limits PM and PM10 emissions to less than fifteen (15) tons per year from the finishing plant. Therefore, 326 IAC 2-2 (Prevention of Significant Deterioration) does not apply to this modification.

**D.1.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]**

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

## Compliance Determination Requirements

### D.1.4 Particulate

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The Permittee shall use wet suppression to control PM and PM10 emissions from conveyors, screens, feeders, hoppers, and stackers at all times these emission units are in operation. The suppressant shall be applied in a manner and at a frequency sufficient to ensure compliance with 326 IAC 6-3-2 and 326 IAC 2-2. If weather conditions preclude the use of wet suppression, the Permittee shall perform chemical analysis on the slag material to ensure it has a moisture content greater than 2.0 percent.

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

### D.1.5 Visible Emissions Notations

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- (a) Once per shift visible emission notations of the finishing unit operations shall be performed during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

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

### D.1.6 Record Keeping Requirements

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- (a) To document compliance with Condition D.1.1 and D.1.2, the Permittee shall maintain
  - (1) Records of once per shift visible emission notations of the finishing unit operations.
  - (2) Records of the chemical analysis of the slag material, as needed.
- (b) To document compliance with Condition D.1.3, the Permittee shall maintain records of any additional inspections prescribed by the Preventive Maintenance Plan.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements of this permit.

## INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY

### PART 70 SOURCE MODIFICATION CERTIFICATION

Source Name: The Levy Company @ JSG Burns Harbor  
Source Address: U.S. High 12, Burns Harbor, Indiana 46368  
Mailing Address: P.O. Box 540, Portage, Indiana 46368  
Source Modification No.: 127-19102-00026

**This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this approval.**

Please check what document is being certified:

- Test Result (specify) \_\_\_\_\_
- Report (specify) \_\_\_\_\_
- Notification (specify) \_\_\_\_\_
- Affidavit (specify) \_\_\_\_\_
- Other (specify) \_\_\_\_\_

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

Signature:

Printed Name:

Title/Position:

Date:

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

**PART 70 OPERATING PERMIT  
EMERGENCY OCCURRENCE REPORT**

Source Name: The Levy Company @ JSG Burns Harbor  
Source Address: U.S. High 12, Burns Harbor, Indiana 46368  
Mailing Address: P.O. Box 540, Portage, Indiana 46368  
Source Modification No.: 127-19102-00026

**This form consists of 2 pages**

**Page 1 of 2**

- ☛ This is an emergency as defined in 326 IAC 2-7-1(12)
- The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and
  - The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16.

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

Facility/Equipment/Operation:

Control Equipment:

Permit Condition or Operation Limitation in Permit:

Description of the Emergency:

Describe the cause of the Emergency:

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

**Page 2 of 2**

|   |
|---|
| Date/Time Emergency started:  |
| Date/Time Emergency was corrected:  |
| Was the facility being properly operated at the time of the emergency?    Y    N<br>Describe:   |
| Type of Pollutants Emitted: TSP, PM-10, SO <sub>2</sub> , VOC, NO <sub>x</sub> , CO, Pb, other:   |
| Estimated amount of pollutant(s) emitted during emergency:  |
| Describe the steps taken to mitigate the problem:   |
| Describe the corrective actions/response steps taken:   |
| Describe the measures taken to minimize emissions:  |
| If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value: |

Form Completed by: \_\_\_\_\_

Title / Position: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

A certification is not required for this report.

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

Technical Support Document (TSD) for a  
Part 70 Minor Source Modification to a  
Title V Not Yet Source

**Source Background and Description**

|                                 |  |
|---------------------------------|--|
| Source Name:                    | The Levy Company @ ISG Burns Harbor          |
| Source Location:                | U.S. Highway 12, Burns Harbor, Indiana 46368 |
| County:                         | Porter                                       |
| SIC Code:                       | 3295   |
| Operation Permit No.:           | 127-7656-00026                               |
| Operation Permit Issuance Date: | Not Issued Yet                               |
| Minor Source Modification No.:  | 127-19102-00026                              |
| Permit Reviewer:                | ERG/SD                                       |

The Office of Air Quality (OAQ) has reviewed a modification application from The Levy Company @ ISG Burns Harbor, relating to the operation of the following emission units:

- (v) One 24 inch by 65 foot conveyor (T1), with a capacity of 110 tons per hour.
- (w) One 24 inch by 65 foot conveyor (T2), with a capacity of 200 tons per hour.
- (x) One 30 inch by 30 foot conveyor (T3), with a capacity of 48 tons per hour.
- (y) One 30 inch conveyor (A2), with a capacity of 250 tons per hour;

The source also requested the following clarifications to the several existing units as permitted under the Significant Source Modification no. 127-15319-00026, issued May 30, 2002.:

...

- (b) One ~~36~~ **30** inch by **95 foot** conveyor (B), with a capacity of 250 tons per hour;
- (c) One ~~36~~ **30** inch conveyors (A1), with a capacity of 250 tons per hour;
- (d) One 6 foot by 16 foot ~~SB~~ **D.D.** Screen, with a capacity of 250 tons per hour;
- (e) One 30 inch by ~~400~~ **150** foot Stacker conveyor (C), with a capacity of 48 tons per hour;
- (m) One ~~24~~ **36** inch by 150 foot radial stack conveyor (S4), with a capacity of 110 tons per hour;

...

These corrections will be incorporated into the pending Part 70 Permit

## History

On May 5, 2004, The Levy Company @ ISG Burns Harbor (a contractor to Bethlehem Steel Corporation) submitted an application to the OAQ requesting to add four (4) new conveyors at their existing finishing plant and the corrections to the emission unit descriptions as permitted under Significant Source Modification no. 127-15319-00026, issued May 30, 2002. The Levy Company submitted an application for a Part 70 permit on December 6, 1996, which is pending.

The finishing plant equipment will be used to handle and process blast furnace slag (a by-product) from Bethlehem Steel. This modification will not result in de-bottlenecking or increase utilization of other existing emission units.

## Source Definition

This steel manufacturing facility consists of a source with an on-site contractor:

- (a) Bethlehem Steel Corporation owns and operates the steel plant, located at U.S. Highway 12, Burns Harbor, Indiana; and
- (b) Levy Company owns and operates a slag separation and finishing facility located at U.S. Highway 12, Burns Harbor, Indiana.

Pursuant to Significant Source Modification no. 127-15319-00026, issued May 30, 2002, IDEM had determined that Bethlehem Steel Corporation and the Levy Company facility located at the Burns Harbor plant are one source under 326 IAC 2-7. These two plants are considered one source because the Levy company obtains all the raw material (blast furnace slag) on-site from Bethlehem Steel Corporation. Therefore, the term "source" in the Part 70 documents refers to both Bethlehem Steel Corporation and the Levy company.

## Enforcement Issue

There are no enforcement actions pending.

## Recommendation

The staff recommends to the Commissioner that the Part 70 Minor Source Modification be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An application for the purposes of this review was received on May 5, 2004.

## Emission Calculations

See Appendix A of this document for detailed emissions calculations.

## Potential To Emit of Modification

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

This table reflects the PTE 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              | 7.83                          |
| PM10            | 3.73                          |
| SO <sub>2</sub> | 0                             |
| VOC             | 0                             |
| CO              | 0                             |
| NO <sub>x</sub> | 0                             |

\* This modification does not result in HAP emissions

### Justification for Modification

The Part 70 operating permit is being modified through a Part 70 Minor Source Modification. This modification is being performed pursuant to 326 IAC 2-7-10.5 (d)(4)(A) because the potential to emit of PM is greater than five (5) tons per year but less than twenty-five (25) tons per year.

### County Attainment Status

The source is located in Porter County.

| Pollutant       | Status     |
|-----------------|------------|
| PM10            | Attainment |
| SO <sub>2</sub> | Attainment |
| NO <sub>2</sub> | Attainment |
| 1-hour Ozone    | Severe     |
| 8-hour Ozone    | Moderate   |
| CO              | Attainment |
| Lead            | Attainment |

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

- (c) **Fugitive Emissions**  
 Since this type of operation is not one of the 28 listed source categories under 326 IAC 2-2 or 2-3 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.

**Source Status**

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

| Pollutant       | Emissions (ton/yr) |
|-----------------|--------------------|
| PM              | 2,586              |
| PM10            | 2,586              |
| SO <sub>2</sub> | 7,515              |
| VOC             | 979                |
| CO              | 241,801            |
| NO <sub>x</sub> | 10,372             |

- (a) This existing source is a major stationary source because an attainment regulated pollutant is emitted at a rate of 100 tons per year or more, and it is in one of the 28 listed source categories.
- (b) These emissions are based upon the Technical Support Document for the CP-127-4478-00001 issued to Bethlehem Steel Corporation on September 15, 1995. The PSD status of the Levy Company is based on the PSD status of Bethlehem Steel Corporation because they are considered as one source.

**Potential to Emit of Modification After Issuance**

The table below summarizes the potential to emit, reflecting all limits, of the significant emission units after controls. The control equipment is considered federally enforceable only after issuance of this Part 70 source modification.

| Process  | Potential to Emit (tons/year) |       |                 |     |     |                 |      |
|--|-------------------------------|-------|-----------------|-----|-----|-----------------|------|
|  | PM                            | PM10  | SO <sub>2</sub> | VOC | CO  | NO <sub>x</sub> | HAPs |
| Conveyor A2                                      | 0.110                         | 0.053 | 0.0             | 0.0 | 0.0 | 0.0             | 0.0  |
| Conveyor T1                                      | 0.049                         | 0.023 | 0.0             | 0.0 | 0.0 | 0.0             | 0.0  |
| Conveyor T2                                      | 0.088                         | 0.042 | --              | --  | --  | --              | --   |
| Conveyor T3                                      | 0.021                         | 0.010 | --              | --  | --  | --              | --   |
| Total  | 0.27                          | 0.13  | --              | --  | --  | --              | --   |
| Significant PSD/<br>Emission Offset<br>Threshold | 25                            | 15    | 40              | 40  | 100 | 40              | NA   |

This modification to an existing major stationary source is not major because the emissions increase is less than the PSD significant levels. Therefore, pursuant to 326 IAC 2-3 and 326 IAC 2-2, the Emission Offset and PSD requirements do not apply.

**Federal Rule Applicability**

- (a) This significant modification does not involve a pollutant-specific emissions unit:
  - (1) with the potential to emit before controls equal to or greater than one hundred (100) tons per year, and
  - (2) that is subject to an emission limit and has a control device that is necessary to meet that limit.

Therefore, the requirements of 40 CFR Part 64, Compliance Assurance Monitoring, are not applicable.

- (b) This source is not subject to the requirements of New Source Performance Standards (NSPS), 40 CFR Part 60, Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants (326 IAC 12) because this subpart is not applicable slag processing operations because the original ore is expanded and vitrified in a furnace which alters the physical and chemical makeup of the ore producing a slag by-product that does not meet the definition of a nonmetallic mineral in 40 CFR Subpart 60.671.
- (c) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs)(326 IAC 14 and 40 CFR Part 63) applicable to this source.

**State Rule Applicability - Entire Source**

326 IAC 2-2 (Prevention of Significant Deterioration)

The Particulate emissions from the new conveyors added to the finishing plant unit operations shall not exceed the values indicated below:

| Process     | Emission Limit (lb/ton) |          |
|-------------|-------------------------|----------|
|             | PM                      | PM10     |
| Conveyor A2 | 0.0001008               | 0.000048 |
| Conveyor T1 | 0.0001008               | 0.000048 |
| Conveyor T2 | 0.0001008               | 0.000048 |
| Conveyor T3 | 0.0001008               | 0.000048 |

This limits the PM and PM10 emissions to less than fifteen (15) tons per year. Therefore, 326 IAC 2-2 (Prevention of Significant Deterioration) does not apply to this modification. These limits are based on AP-42 emission factors for controlled processes (wet suppression).

Pursuant to Significant Source Modification no. 127-15319-00026, issued May 30, 2002, compliance with the above limits shall be established through the use of wet suppression (weather permitting) and the visible emissions notations. When weather conditions preclude the use of wet suppression, the source shall perform chemical analysis of the slag material to ensure it has a moisture content greater than 2.0 percent. The 2.0 percent moisture content value is near the upper range of the study group used to develop the controlled AP-42 emission factors (0.55 to 2.88 percent). Historically, the moisture content of the slag material at The Levy Company has been between 1.5 and 4.0 percent.

326 IAC 2-3 (Emission Offset)

These modifications does not result in potential to emit of VOC. Therefore, the requirements of 326 IAC 2-3 (Emission Offset) does not apply to the modifications.

326 IAC 2-4.1 (Major Source of Hazardous Air Pollutants (HAPs))

These modifications does not result in potential to emit of a HAPs. Therefore, the requirements of 326 IAC 2-4.1 do 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:

- (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 non-overlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

### State Rule Applicability - Crushed Stone Processing

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

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate emissions from the new units shall be limited as shown in the table below.

| Process     | Throughput Rate (tons/hour) | Particulate Emission Limit (lbs/hour) |
|-------------|-----------------------------|---------------------------------------|
| Conveyor A2 | 250                         | 61.0                                  |
| Conveyor T1 | 110                         | 52.2                                  |
| Conveyor T2 | 200                         | 58.5                                  |
| Conveyor T3 | 48                          | 44.2                                  |

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

$$E = 55 P^{0.11} - 40 \quad \text{where } E = \text{rate of emission in pounds per hour and} \\ P = \text{process weight rate in tons per hour}$$

Compliance with these limits is established through the use of the controlled emission factors for crushed stone processing found in Table 11.19.2-2 of AP-42 (01/95). No testing of these units is required as there is no stack, and uncontrolled potential to emit from each unit are less than ten (10) pounds per hour.

#### 326 IAC 8-1-6 (New Facilities - General Reduction Requirement)

The conveyors do not have potential to emit of VOC. Therefore, these emission units are not subject to the provisions of 326 IAC 8-1-6.

### Compliance Requirements

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

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

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

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

1. The conveyors A2, T1, T2 and T3 has applicable compliance monitoring conditions as specified below:
  - (a) Once per shift visible emissions notations of the finishing unit operations shall be performed once per day during normal daylight operations. A trained employee will record whether emissions are normal or abnormal. For processes operated continuously "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time. In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.

These monitoring conditions are necessary to ensure compliance with 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes) and 326 IAC 2-2 (Prevention of Significant Deterioration).

## **Conclusion**

The operation of the woodworking operations and the associated dust collectors of this modification shall be subject to the conditions of the attached proposed Part 70 Minor Source Modification 127-19102-00026.

**Appendix A: Emissions Calculations  
Crushed Stone Processing**

**Company Name:** Levy Company @ ISG Burns Harbor  
**Address:** U.S. Highway 12, Burns Harbor, Indiana 46368  
**CP:** 127-19102  
**Pit ID:** 127-00026  
**Reviewer:** ERG/SD  
**Date:** May 19th, 2004

| Process      | Throughput Rate<br>(tons/hour) | Emission Factor (lb/ton) |              |            |            | Potential To Emit (tons/year) |              |             |             |
|--------------|--------------------------------|--------------------------|--------------|------------|------------|-------------------------------|--------------|-------------|-------------|
|              |                                | PM*                      | PM10*        | PM*        | PM10*      | PM*                           | PM10*        | PM*         | PM10*       |
|              |                                | Uncontrolled             | Uncontrolled | Controlled | Controlled | Uncontrolled                  | Uncontrolled | Controlled  | Controlled  |
| Conveyor A2  | 250                            | 0.0029                   | 0.0014       | 0.00010    | 4.80E-05   | 3.22                          | 1.53         | 0.110       | 0.053       |
| Conveyor T1  | 110                            | 0.0029                   | 0.0014       | 0.00010    | 4.80E-05   | 1.42                          | 0.67         | 0.049       | 0.023       |
| Conveyor T2  | 200                            | 0.0029                   | 0.0014       | 0.00010    | 4.80E-05   | 2.58                          | 1.23         | 0.088       | 0.042       |
| Conveyor T3  | 48.0                           | 0.0029                   | 0.0014       | 0.00010    | 4.80E-05   | 0.62                          | 0.29         | 0.021       | 0.010       |
| <b>TOTAL</b> |                                |                          |              |            |            | <b>7.83</b>                   | <b>3.73</b>  | <b>0.27</b> | <b>0.13</b> |

\* PM10 emission factor is from AP-42 Chapter 11.19.2 -Crushed Stone Processing, Table 11.19.2-2 (SCC 3-05-020, 03 and SCC 3-05-020-06) 01/95.  
PM emission factor are not provided in AP-42, but guidance is provided to estimate TSP emissions by multiplying the PM10 emission factor by 2.1.  
Controlled factors reflects water suppression.

**METHODOLOGY**

Potential To Emit (tons/year) = Throughput (tons/hour) \* Emission Factor (lb/ton) \* 8760 hour/year \* 1ton/2000 lbs

**Appendix A: Emissions Calculations  
Change in PTE**

**Company Name:** Levy Company @ ISG Burns Harbor  
**Address:** U.S. Highway 12, Burns Harbor, Indiana 46368  
**CP:** 127-19102  
**Plt ID:** 127-00026  
**Reviewer:** ERG/SD  
**Date:** May 19th, 2004

|                            | Uncontrolled PTE |             | Controlled PTE |             |
|----------------------------|------------------|-------------|----------------|-------------|
|                            | PM               | PM10        | PM             | PM10        |
| Total From Existing Source | 121              | 57.4        | 5.78           | 2.75        |
| Total From Modification    | 7.83             | 3.73        | 0.27           | 0.13        |
| <b>TOTAL</b>               | <b>128</b>       | <b>61.1</b> | <b>6.05</b>    | <b>2.88</b> |