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

NOTICE OF 30-DAY PERIOD FOR PUBLIC COMMENT

Preliminary Findings Regarding a Significant Source Modification and a Part 70 Operating Permit Renewal
for
The Levy Company, Inc.
a contractor of ArcelorMittal Burns Harbor, LLC.

Significant Source Modification No. 127-30302-00026
Part 70 Operating Permit Renewal No.: 127-29719-00026

The Indiana Department of Environmental Management (IDEM) has received an application from The Levy Company, Inc., a contractor of ArcelorMittal Burns Harbor, LLC located at 250 W. US Highway 12, Burns Harbor, Indiana 46304 for a Significant Source Modification and a Part 70 Operating Permit Renewal. If approved by IDEM's Office of Air Quality (OAQ), this renewal would allow The Levy Company, Inc. to modify and continue operating their blast furnace and basic oxygen slag processing and handling operation.

IDEM has reviewed this application, and has developed preliminary findings, consisting of draft permits and several supporting documents, that would allow the applicant to make this change.

A copy of the permit application and IDEM's preliminary findings are available at:

Westchester Public Library
200 West Indiana Avenue
Chesterton, Indiana 46304

And

IDEM Northwest Regional Office
8380 Louisiana Street
Merrillville, IN 46410

A copy of the preliminary findings is available on the Internet at: www.in.gov/idem/permits/air/pending.html.

How can you participate in this process?

The day after this announcement is published in a newspaper marks the beginning of a 30-day public comment period. During that 30-day period, you may comment on this draft permit. If the 30th day of the comment period falls on a day when IDEM offices are closed for business, all comments must be postmarked or delivered in person on the next business day that IDEM is open.

You may request that IDEM hold a public hearing about this draft permit. If adverse comments concerning the **air pollution impact** of this draft permit are received, with a request for a public hearing, IDEM may hold a public hearing. If a public hearing is held, IDEM will make a separate announcement of the date, time, and location of that hearing. At a hearing, you would have an opportunity to submit written comments, make verbal comments, ask questions, and discuss any air pollution concerns with IDEM staff.

Comments and supporting documentation, or a request for a public hearing should be sent in writing to IDEM. If you do not want to comment at this time, but would like to be added to IDEM's mailing list to receive notice of future action related to this permit application, please contact IDEM. Please refer to permit numbers SSM No. 127-30302-00026 and TV Renewal No.127-29719-00026 in all correspondence.

To Contact IDEM:

Aida De Guzman
IDEM, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251
(800) 451-6027, ask for extension 3-4972
Or dial directly: (317) 233-4972
E-mail: adeguzma@idem.IN.gov

All comments will be considered by IDEM when we make a decision to issue or deny the permit. Comments that are most likely to affect final permit decisions are those based on the rules and laws governing this permitting process (326 IAC 2), air quality issues, and technical issues. IDEM does not have legal authority to regulate zoning, odor or noise. For such issues, please contact your local officials.

What will happen after IDEM makes a decision?

Following the end of the public comment period, IDEM will issue a Notice of Decision stating whether the permits have been issued or denied. If the permits are issued, it may be different than the draft permits because of comments that were received during the public comment period. If comments are received during the public notice period, the final decision will include a document that summarizes the comments and IDEM's response to those comments. If you have submitted comments or have asked to be added to the mailing list, you will receive a Notice of the Decision. The notice will provide details on how you may appeal IDEM's decision, if you disagree with that decision. The final decision will also be available on the Internet at the address indicated above, at the local library indicated above, and the IDEM public file room on the 12th floor of the Indiana Government Center North, 100 N. Senate, Indianapolis 46204 and IDEM Northwest Regional Office, 8380 Louisiana Street, Merrillville, IN 46410.

If you have any questions, please contact Aida De Guzman of my staff at the above address.

Donald F. Robin, P.E., Section Chief
Permits Branch
Office of Air Quality

For additional information about air permits and how you can participate, please see IDEM's **Guide for Citizen Participation** and **Permit Guide** on the Internet at: www.in.gov/idem/permits/guide/.

APD

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DRAFT

Mr. Max Chesebro
The Levy Company, Inc.
P.O. Box 540
Portage, Indiana 46368

Re: 127-30302-00026
Significant Source Modification to:
Part 70 Source (T127-7656-00026)

Dear Mr. Chesebro:

The Levy Company, Inc., located at 250 W.US Highway 12, Burns harbor, Indiana 46304 was issued Part 70 Operating Permit T127-7656-00026 on June 30, 2006 for a stationary blast furnace and basic oxygen furnace slag finishing operation and separation plant. An application to modify the Part 70 source was received on March 3, 2011. Pursuant to 326 IAC 2-7-10.5 the following modification is hereby approved for construction at the source:

(a) Four (4) portable conveyors, each with a maximum capacity of 450 tons per hour, approved in 2011 for construction.

(b) One (1) portable loader with feeder and conveyor/stacker (2 drop points, each drop point with a maximum capacity of 450 tons/hour, approved in 2011 for construction.

The above emission units will be located at the existing portable crushing and screening operation.

(c) One Portable Plant No.2, approved in 2011 for construction consisting of:

(1) One (1) grizzly, with a maximum capacity of 500 tons per hour.

(2) One (1) feed hopper, with a maximum capacity of 500 tons per hour.

(3) Three (3) conveyors, each with a maximum capacity of 500 tons per hour.

(4) One (1) feeder, with a maximum capacity of 500 tons per hour.

(5) One (1) screen, with a maximum capacity of 500 tons per hour.

(6) Four (4) screen output conveyors (4 split: 3 discharge and 1 return), with a maximum capacity of 500 tons per hour.

(7) Four (4) stacker/conveyors (4 split: 2 stackers, 1 finishing and 1 spare), with a maximum capacity of 500 tons per hour.

(8) One (1) impactor/crusher, with a maximum capacity of 500 tons per hour.

(9) Three (3) magnets with a maximum capacity of 15 tons per hour.

(10) Two (2) portable diesel fired generator, one with a capacity of 535 Hp and one with a capacity of 630 Hp.

(11) Two (2) portable diesel fired engines, one with a capacity of 75 Hp and one with a capacity of 65 Hp.

General Construction Conditions

1. The data and information supplied with the application shall be considered part of this source modification approval. Prior to any proposed change in construction which may affect the potential to emit (PTE) of the proposed project, the change must be approved by the Office of Air Quality (OAQ).

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

3. Effective Date of the Permit
Pursuant to IC 13-15-5-3, this approval becomes effective upon its issuance.

4. Revocation of Permits [326 IAC 2-1.1-9] [316 IAC 2-7-10.5(i)
Pursuant to 326 IAC 2-1.1-9(5) and 326 IAC 2-7-10.5(i), this permit to construct shall expire if construction is not commenced within eighteen (18) months from the date of the issuance of this permit, or if during the construction of the source or emissions unit, work is suspended for a continuous period of one (1) year or more.

5. All requirements and conditions of this construction approval shall remain in effect unless modified in a manner consistent with procedures established pursuant to 326 IAC 2.

6. Pursuant to 326 IAC 2-7-10.5(l) the emission units constructed under this approval shall not be placed into operation prior to revision of the source's Part 70 Operating Permit to incorporate the required operation conditions.

This significant source modification authorizes construction of the new emission units. Operating conditions shall be incorporated into the Part 70 Operating Permit Renewal as a Significant Permit Modification in accordance with 326 IAC 2-7-10.5(l)(2) and 326 IAC 2-7-12. Operation is not approved until the Part 70 Operating Permit Renewal has been issued.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter call (800) 451-6027, and ask for Aida De Guzman or extension (3-4972), or dial (317) 233-4972.

Sincerely,

Donald F. Robin, P.E., Section Chief
Permits Branch
Office of Air Quality

Attachments
APD

cc: Porter County
Porter County Health Department
Compliance and Enforcement Branch
Permit Administration Support Section
Northwest Regional Office

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DRAFT

SIGNIFICANT SOURCE MODIFICATION TO A PART 70 SOURCE
OFFICE OF AIR QUALITY

The Levy Company, Inc. -
a contractor of ArcelorMittal Burns Harbor, LLC
U.S. Highway 12
Burns Harbor, Indiana 46304

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

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.

Significant Source Modification No.: 127-30302-00026	
Donald F. Robin, P.E., Section Chief Permits Branch Office of Air Quality	Issuance Date: :

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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, A.2, A.3, and A.4 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 blast furnace and basic oxygen furnace slag finishing operation and separation plant.

Source Address:	U.S. Highway 12, Burns Harbor, Indiana 46304
General Source Phone Number:	(219) 787-8666
SIC Code:	3295
County Location:	Porter
Source Location Status:	Nonattainment for $PM_{2.5}$ Attainment for all other criteria pollutants
Source Status:	Part 70 Permit Program Major Source under PSD and Nonattainment NSR Rules Major Source, Section 112 of the Clean Air Act 1 of 28 Listed Source Categories

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

The Levy Company, Inc., operates this slag finishing operation and separation plant, and is a contractor of ArcelorMittal Burns Harbor, LLC:

(a) ArcelorMittal Burns Harbor, LLC (plant ID 127-00001), the primary operation, is located at U.S. Highway 12, Burns Harbor, Indiana; and

(b) The Levy Company (plant ID 127-00026), the secondary operation, is located at U.S. Highway 12, Burns Harbor, Indiana.

Separate Part 70 permits will be issued to ArcelorMittal Burns Harbor, LLC (TV 127-6301-00001) and The Levy Company (TV 127-29719-00026) solely for administrative purposes.

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

The Levy Company, Inc., operates the following emission units and pollution control devices:

Burns Harbor Site

(a) An open air Slag Pot Dumping operation constructed in 1969 which receives slag pots by pot carrier from the BOF, identified as EU001-01, with collective fugitive emissions EP001-9011.

(b) An open air Slag Pot Preparation operation constructed in 1969, identified as EU001-04, consisting of relining and conditioning of empty pots, with pot material additive, with collective fugitive emissions EP001-9001.

(c) An open air Blast Furnace and BOF Slag Batch Unloading/Processing/Loading operation (Separation Plant) constructed in 1969, and modified in 2010, identified as EU001-02, with a maximum capacity of 1,150 tons of material per hour, with particulate fugitive emissions controlled by water sprays, consisting of the following equipment:

(1) One (1) grizzly and feed hopper with a maximum capacity of 350 tons per hour.
(2) One (1) No. 101 feeder with a maximum capacity of 1,150 tons per hour.
(3) One (1) No. 102 belt feeder with a maximum capacity of 1,000 tons per hour.

(4) One (1) No. 103 72” drum magnet.
(5) One (1) No. 103-A swinging pendulum magnet.
(6) One (1) No. 104 main conveyor with a maximum capacity of 1,260 tons per hour.
(7) One (1) 42” mag head pulley.
(8) One (1) Nos. 105 and 106 screens with a maximum capacity of 630 tons per hour each.
(9) One (1) No. 107 conveyor with a maximum capacity of 550 tons per hour.
(10) One (1) No. 109 radial stacker with a maximum capacity of 550 tons per hour.
(11) One (1) 30” mag head pulley.
(12) One (1) No. 107-A conveyor with a maximum capacity of 550 tons per hour.
(13) One (1) No. 110 radial stacker with a maximum capacity of 550 tons per hour.
(14) One (1) 24” mag head pulley.
(15) One (1) No. 111 crusher with a maximum capacity of 700 tons per hour.
(16) One (1) No. 108 conveyor with a maximum capacity of 300 tons per hour.
(17) One (1) No. 139 conveyor with a maximum capacity of 210 tons per hour.
(18) One (1) No. 140 conveyor with a maximum capacity of 550 tons per hour.
(19) One (1) No. 141 secondary crusher with a maximum capacity of 25 tons per hour.
(20) One (1) No. 142 recirculatory conveyor with a maximum capacity of 250 tons per hour.
(21) One (1) No. 143 conveyor with a maximum capacity of 225 tons per hour.
(22) One (1) No. 144 secondary crusher with a maximum capacity of 225 tons per hour.
(23) One (1) No. 145 recirculatory conveyor with a maximum capacity of 225 tons per hour.
(24) One (1) No. 112 recirculatory conveyor with a maximum capacity of 410 tons per hour.
(25) One (1) overband magnet.
(26) One (1) 30” mag head pulley.
(27) One (1) No. 114 recirculatory FE conveyor with a maximum capacity of 500 tons per hour.
(28) One (1) No. 120 conveyor with a maximum capacity of 110 tons per hour.
(29) One (1) No. 120F conveyor with a maximum capacity of 10 tons per hour.
(30) One (1) No. 120A screen with a maximum capacity of 110 tons per hour.
(31) One (1) No. 120B conveyor with a maximum capacity of 120 tons per hour.
(32) One (1) 42” mag head pulley.
(33) One (1) No. 120E conveyor with a maximum capacity of 10 tons per hour.
(34) One (1) No. 120C screen with a maximum capacity of 110 tons per hour.
(35) Two (2) truck loading bins.
(36) One (1) No. L-7 conveyor with a maximum capacity of 35 tons per hour.
(37) One (1) 24” mag head pulley

(d) An open air Blast Furnace and BOF Slag Finishing Plant constructed in 2003, identified as EU001-05, with a maximum capacity of 250 tons of material per hour, with particulate fugitive emissions controlled by wet suppression, consisting of the following pieces of equipment:

(1) Two Syntron Feeders (F1 and F2), with a capacity of 250 tons per hour each.
(2) One conveyor (B), with a capacity of 250 tons per hour.
(3) One conveyor (A1), with a capacity of 250 tons per hour.
(4) One Screen, with a capacity of 250 tons per hour.
(5) One Stacker conveyor (C), with a capacity of 48 tons per hour.
(6) One conveyor (D), with a capacity of 250 tons per hour.
(7) One conveyor (E), with a capacity of 250 tons per hour.
(8) One Screen (SC2), with a capacity of 250 tons per hour.
(9) One conveyor (F), with a capacity of 110 tons per hour.
(10) One conveyor (G), with a capacity of 110 tons per hour.
(11) One conveyor (H), with a capacity of 50 tons per hour.
(12) One horizontal screen (SC3), with a capacity of 50 tons per hour.
(13) One radial stack conveyor (S4), with a capacity of 110 tons per hour.
(14) One radial stack conveyor (S5), with a capacity of 50 tons per hour.
(15) One conveyor (I), with a capacity of 200 tons per hour.
(16) One conveyor (J), with a capacity of 113 tons per hour.
(17) One conveyor (K), with a capacity of 113 tons per hour.
(18) One radial stack conveyor (S2), with a capacity of 113 tons per hour.
(19) One conveyor/stacker CC1, with a capacity of 50 tons per hour.
(20) One conveyor/stacker CC2, with a capacity of 200 tons per hour.

(21) Four additional conveyors constructed in 2004:

(A) One conveyor (T1), with a capacity of 200 tons per hour.
(B) One conveyor (T2), with a capacity of 200 tons per hour.
(C) One conveyor (T3), with a capacity of 48 tons per hour.
(D) One conveyor (A2), with a capacity of 250 tons per hour.

(22) One (1) crusher, with a maximum capacity of 200 tons per hour, approved in 2010 for construction.
(23) Three (3) truck loading bins, approved in 2010 for construction.

(e) One (1) portable crushing and screening operation, constructed in 2007, with a maximum capacity of 600 tons of slag per hour, with particulate fugitive emissions controlled by wet suppression, consisting of:

(1) Two (2) portable crushers each with a maximum capacity of 300 tons per hour.
(2) One (1) portable screen with a maximum capacity of 300 tons per hour, powered by a 70 Hp diesel engine.
(3) Nine (9) portable conveyors each with a maximum capacity of 300 tons per hour.

(f) One (1) portable barge loading unit for nut coke and slag, consisting of a feed hopper and conveyor/stacker with a maximum capacity of 300 tons per hour, constructed in 2006.

(g) One (1) portable barge loading unit for slag, consisting of a feed hopper, screen, and conveyor/stacker with a maximum capacity of 400 tons per hour, approved in 2010 for construction.

(h) One (1) portable boat loading unit for slag, consisting of a feed hopper and conveyor/stacker with a maximum capacity of 1500 tons per hour, approved in 2010 for construction.

(i) One (1) portable stacking unit for slag, consisting of a feed hopper and conveyor/stacker with a maximum capacity of 250 tons per hour, approved in 2010 for construction.

(j) One (1) portable screen unit for slag and scarfing material, consisting of a screen and conveyor/stacker, with a maximum capacity of 250 tons per hour, approved in 2010 for construction.

(k) One (1) portable screen unit for slag, consisting of a feed hopper and conveyor/stacker with a maximum capacity of 250 tons per hour, permitted for construction in 2010.

(l) Two (2) portable stackers with a maximum capacity of 200 tons per hour each, approved in 2010 for construction.

(m) Two (2) portable generators one (1) with a maximum capacity of 205 kw and one (1) with a maximum capacity of 250 kw, approved in 2010 for construction.

(n) One (1) portable generator with a maximum capacity of 105 kw, approved in 2010 for construction.

(o) Four (4) portable conveyors, each with a maximum capacity of 450 tons per hour, approved in 2011 for construction.

(p) Stock piles and product storage piles located at Port of Indiana storage yard, Portage.

(q) One (1) portable loader with feeder and conveyor/stacker (2 drop points, each drop point with a maximum capacity of 450 tons/hour, approved in 2011 for construction.

(r) One Portable Plant No. 2, approved in 2011 for construction consisting of:

(1) One (1) grizzly, with a maximum capacity of 500 tons per hour.

(2) One (1) feed hopper, with a maximum capacity of 500 tons per hour.
(3) Three (3) conveyors, each with a maximum capacity of 500 tons per hour.
(4) One (1) feeder, with a maximum capacity of 500 tons per hour.
(5) One (1) screen, with a maximum capacity of 500 tons per hour.
(6) Four (4) screen output conveyors (4 split: 3 discharge and 1 return), with a maximum capacity of 500 tons per hour.
(7) Four (4) stacker/conveyors (4 split: 2 stackers, 1 finishing and 1 spare), with a maximum capacity of 500 tons per hour.
(8) One (1) impactor/crusher, with a maximum capacity of 500 tons per hour.
(9) Three (3) magnets with a maximum capacity of 15 tons per hour.
(10) Two (2) portable diesel fired generatyor, one with a capacity of 535 Hp and one with a capacity of 630 Hp.
(11) Two (2) portable diesel fired engines, one with a capacity of 75 Hp and one with a capacity of 65 Hp.

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

The Levy Company, Inc., also consists of the following insignificant activities that are specifically regulated, as defined in 326 IAC 2-7-1(21):

(a) Degreasing operations that do not exceed 145 gallons per 12 month, except if subject to 326 IAC 20-6. [326 IAC 8-3]

(b) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment. [326 IAC 6-3-2]

(c) Activities with emissions equal to or less than insignificant thresholds [326 IAC 2-7-1(21)]:

(1) 17,000 gallon diesel AST identified as EE001-9011 [326 IAC 8-9];
(2) 11,000 gallon diesel AST identified as EE001-9012 [326 IAC 8-9];
(3) Iron breakup processing identified as EE001-9014.

A.5 Part 70 Permit Applicability [326 IAC 2-7-2]

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

(a) It is a major source, as defined in 326 IAC 2-7-1(22);

(b) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 - Applicability).

SECTION B GENERAL CONDITIONS

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

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, 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 Permit Term [326 IAC 2-7-5(2)] [326 IAC 2-1.1-9.5] [326 IAC 2-7-4(a)(1)(D)] [IC 13-15-3-6(a)]

(a) This permit, T127-29719-00026, 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, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.

B.3 Term of Conditions [326 IAC 2-1.1-9.5]

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.4 Enforceability [326 IAC 2-7-7]

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.5 Severability [326 IAC 2-7-5(5)]

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

B.6 Property Rights or Exclusive Privilege [326 IAC 2-7-5(6)(D)]

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

B.7 Duty to Provide Information [326 IAC 2-7-5(6)(E)]

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

(a) A certification required by this permit meets the requirements of 326 IAC 2-7-6(1) if:

(i) it contains a certification by a "responsible official", as defined by 326 IAC 2-7-1(34), and

(ii) the certification is based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

(b) The Permittee may use the attached Certification Form, or its equivalent with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.

(c) A responsible official is defined at 326 IAC 2-7-1(34).

B.9 Annual Compliance Certification [326 IAC 2-7-6(5)]

(a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. All certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted no later than April 15 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

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Air Enforcement Branch - Indiana (AE-17J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

(b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

(c) The annual compliance certification report shall include the following:

(1) The appropriate identification of each term or condition of this permit that is the basis of the certification;

(2) The compliance status;

(3) Whether compliance was continuous or intermittent;

(4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-7-5(3); and

(5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ, may require to determine the compliance status of the source.

The submittal by the Permittee does require the certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

B.10 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]

(a) The Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this permit, for the source as described in 326 IAC 1-6-3. At a minimum, the PMPs shall include:

(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 PMP extension notification does not require the certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

(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. The PMPs and their submittal do not require the certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

(c) To the extent the Permittee is required by 40 CFR 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.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 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, no later than 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 and Enforcement Branch), or
Telephone Number: 317-233-0178 (ask for Compliance and Enforcement Branch)
Facsimile Number: 317-233-6865

and for the Northwest Regional Office;

Telephone Number: 1-888-209-8892 (ask for Office of Air Quality, Compliance and Enforcement Branch)
Telephone Number: 219-757-0265 (ask for Compliance and Enforcement Branch)
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 and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

no later than 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 that meets the requirements of 326 IAC 2-7-6(1) by a "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) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ, may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4(c)(9) be revised in response to an emergency.

(f) Failure to notify IDEM, 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.

B.12 Permit Shield [326 IAC 2-7-15] [326 IAC 2-7-20] [326 IAC 2-7-12]

(a) Pursuant to 326 IAC 2-7-15, the Permittee has been granted a permit shield. The permit shield provides that compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that either the applicable requirements are included and specifically identified in this permit or the permit contains an explicit determination or concise summary of a determination that other specifically identified requirements are not applicable. The Indiana statutes from IC 13 and rules from 326 IAC, referenced in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a Part 70 permit under 326 IAC 2-7 or for applicable requirements for which a permit shield has been granted.

This permit shield does not extend to applicable requirements which are promulgated after the date of issuance of this permit unless this permit has been modified to reflect such new requirements.

(b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, IDEM, OAQ, shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.

(c) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application. Erroneous information means information that the Permittee knew to be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.

(d) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:

(1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;

(2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;

(3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and

(4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.

(e) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).

(f) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAQ, has issued the modifications. [326 IAC 2-7-12(c)(7)]

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

B.13 Prior Permits Superseded [326 IAC 2-1.1-9.5] [326 IAC 2-7-10.5]

(a) All terms and conditions of permits established prior to T127-7656-00026 and issued pursuant to permitting programs approved into the state implementation plan have been:

(1) incorporated as originally stated,

(2) revised under 326 IAC 2-7-10.5, or

(3) deleted under 326 IAC 2-7-10.5.

(b) Provided that all terms and conditions are accurately reflected in this combined permit, all previous registrations and permits are superseded by this combined new source review and part 70 operating permit

B.14 Termination of Right to Operate [326 IAC 2-7-10] [326 IAC 2-7-4(a)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-7-3 and 326 IAC 2-7-4(a).

B.15 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-7-5(6)(C)] [326 IAC 2-7-8(a)] [326 IAC 2-7-9]

(a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require the certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

(b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ, determines any of the following:

(1) That this permit contains a material mistake.

(2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.

(3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-7-9(a)(3)]

(c) Proceedings by IDEM, OAQ, to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-7-9(b)]

(d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ, at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ, may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

B.16 Permit Renewal [326 IAC 2-7-3] [326 IAC 2-7-4] [326 IAC 2-7-8(e)]

(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 2-7-4. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require the certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

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 nine (9) months 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 2-7 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 2-7-

4(a)(2)(D), in writing by IDEM, OAQ, any additional information identified as being needed to process the application.

B.17 Permit Amendment or Modification [326 IAC 2-7-11] [326 IAC 2-7-12]

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

Any such application shall be certified by a "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)]

B.18 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)] [326 IAC 2-7-12 (b)(2)]

(a) No Part 70 permit revision or notice shall be required under any approved economic incentives, marketable Part 70 permits, emissions trading, and other similar programs or processes for changes that are provided for in a Part 70 permit.

(b) Notwithstanding 326 IAC 2-7-12(b)(1) and 326 IAC 2-7-12(c)(1), minor Part 70 permit modification procedures may be used for Part 70 modifications involving the use of economic incentives, marketable Part 70 permits, emissions trading, and other similar approaches to the extent that such minor Part 70 permit modification procedures are explicitly provided for in the applicable State Implementation Plan (SIP) or in applicable requirements promulgated or approved by the U.S. EPA.

B.19 Operational Flexibility [326 IAC 2-7-20] [326 IAC 2-7-10.5]

(a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b), (c), or (e), without a prior permit revision, if each of the following conditions is met:

(1) The changes are not modifications under any provision of Title I of the Clean Air Act;

(2) Any preconstruction approval required by 326 IAC 2-7-10.5 has been obtained;

(3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);

(4) The Permittee notifies the:

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

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the

proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and

(5) The Permittee maintains records on-site, on a rolling five (5) year basis, which document all such changes and emission trades that are subject to 326 IAC 2-7-20(b), (c), or (e). The Permittee shall make such records available, upon reasonable request, for public review.

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

(b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-7-20(a). For each such Section 502(b)(10) of the Clean Air Act change, the required written notification shall include the following:

(1) A brief description of the change within the source;

(2) The date on which the change will occur;

(3) Any change in emissions; and

(4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted is not considered an application form, report or compliance certification. Therefore, the notification by the Permittee does not require the certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

(c) Emission Trades [326 IAC 2-7-20(c)]
The Permittee may trade emissions increases and decreases at the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-7-20(c).

(d) Alternative Operating Scenarios [326 IAC 2-7-20(d)]
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-7-5(9). No prior notification of IDEM, OAQ, or U.S. EPA is required.

(e) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

B.20 Source Modification Requirement [326 IAC 2-7-10.5]

(a) A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-7-10.5.

(b) Any modification at an existing major source is governed by the requirements of 326 IAC 2-2-2 and/or 326 IAC 2-3-2.

B.21 Inspection and Entry [326 IAC 2-7-6] [IC 13-14-2-2] [IC 13-30-3-1] [IC 13-17-3-2]

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 Part 70 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 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 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 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.22 Transfer of Ownership or Operational Control [326 IAC 2-7-11]

(a) The Permittee must comply with the requirements of 326 IAC 2-7-11 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 the certification that meets the requirements of 326 IAC 2-7-6(1) by a "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)]

B.23 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)][326 IAC 2-1.1-7]

(a) The Permittee shall pay annual fees to IDEM, OAQ, no later than thirty (30) calendar days of receipt of a billing. In the event that the source is a sub-contractor and is combined with a larger Part 70 source, the larger Part 70 source may pay the Permittee's annual fees as part of the larger source billing and subject to the fee cap of the larger source. If, however, the larger Part 70 does not pay its annual Part permit fee, IDEM, OAQ will assess a separate fee in accordance with 326 IAC 2-7-19(c) to be paid by the Permittee. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ, the applicable fee is due April 1 of each year.

(b) Except as provided in 326 IAC 2-7-19(e), failure to pay may result in administrative enforcement action or revocation of this permit.

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.24 Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314][326 IAC 1-1-6]

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 2-7-5(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 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 non-overlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.3 Open Burning [326 IAC 4-1] [IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1. 326 IAC 4-1-3 (a)(2)(A) and (B) are not federally enforceable.

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

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

C.5 Fugitive Dust Emissions [326 IAC 6-4]

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

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

Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the plan, submitted on May 30, 2007 and revised in October 2009. The plan is included as Attachment A.

C.7 Stack Height [326 IAC 1-7]

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted. The provisions of 326 IAC 1-7-1(3), 326 IAC 1-7-2, 326 IAC 1-7-3(c) and (d), 326 IAC 1-7-4, and 326 IAC 1-7-5(a), (b), and (d) are not federally enforceable.

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

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

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

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

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

(A) Asbestos removal or demolition start date;

(B) Removal or demolition contractor; or

(C) Waste disposal site.

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

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

All required notifications shall be submitted to:

Indiana Department of Environmental Management
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. The notifications do not require a certification by a "responsible official" as defined by 326 IAC 2-7-1(34).

(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 2-7-6(1)]

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

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

(b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by a "responsible official" as defined by 326 IAC 2-7-1(34).

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

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

Unless otherwise specified in this permit, for all monitoring requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or of initial start-up, whichever is later, to begin such monitoring. If due to circumstances beyond the Permittee's control, any monitoring equipment requires by this permit cannot be installed and operated no later than ninety (90) days after permit issuance or the date of initial start-up, whichever is later, the Permittee may extend the compliance schedule related to the equipment for 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

in writing, prior to the end of the initial ninety (90) day compliance schedule, with full justification of the reasons for the inability to meet this date.

The notification which shall be submitted by the Permittee does require the certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

Unless otherwise specified in the approval for the new emission unit(s), compliance monitoring for new emission units or emission units added through a source modification shall be implemented when operation begins.

C.12 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

(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 [326 IAC 2-7-5] [326 IAC 2-7-6]

C.13 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

Pursuant to 326 IAC 1-5-2 (Emergency Reduction Plans; Submission):

(a) The Permittee shall prepare written emergency reduction plans (ERPs) consistent with safe operating procedures.

(b) These ERPs shall be submitted for approval 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 ninety (90) days after the date of issuance of this permit.

The ERP does require the certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

(c) If the ERP is disapproved by IDEM, OAQ, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP.

(d) These ERPs shall state those actions that will be taken, when each episode level is declared, to reduce or eliminate emissions of the appropriate air pollutants.

(e) Said ERPs shall also identify the sources of air pollutants, the approximate amount of reduction of the pollutants, and a brief description of the manner in which the reduction will be achieved.

(f) Upon direct notification by IDEM, OAQ, that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.14 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68]

If a regulated substance, as defined in 40 CFR 68, is present at a source in more than a threshold quantity, the Permittee must comply with the applicable requirements of 40 CFR 68.

C.15 Response to Excursions or Exceedances [326 IAC 2-7-5] [326 IAC 2-7-6]

Upon detecting an excursion where a response step is required by the D Section or 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;

(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 responses steps taken.

C.16 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 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 and 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.

The response action documents submitted pursuant to this condition do require the certification that meets the requirements of 326 IAC 2-7-6(1) by a "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.17 Emission Statement [326 IAC 2-7-5(3)(C)(iii)][326 IAC 2-7-5(7)][326 IAC 2-7-19(c)][326 IAC 2-6]

Pursuant to 326 IAC 2-6-3(a)(1), the Permittee shall submit by July 1 of each year an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:

(1) Indicate estimated actual emissions of all pollutants listed in 326 IAC 2-6-4(a);

(2) Indicate estimated actual emissions of regulated pollutants as defined by 326 IAC 2-7-1 (32) (“Regulated pollutant, which is used only for purposes of Section 19 of this rule”) from the source, for purpose of fee assessment.

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

The emission statement does require the certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

C.18 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6] [326 IAC 2-2] [326 IAC 2-3]

(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 to begin such record keeping.

(c) If there is a “project” (as defined in 326 IAC 2-2-1 (qq) and/or 326 IAC 2-3-1 (ll)) at an existing emissions unit, other than projects at a source with a Plantwide Applicability Limitation (PAL), which is not part of a “major modification” (as defined in 326 IAC 2-2-1 (ee) and/or 326 IAC 2-3-1 (z)) and the Permittee elects to utilize the “projected actual emissions” (as defined in 326 IAC 2-2-1 (rr) and/or 326 IAC 2-3-1 (mm)), the Permittee shall comply with following:

(1) Prior to commencing the construction of the “project” (as defined in 326 IAC 2-2-1 (qq) and/or 326 IAC 2-3-1 (ll)) at an existing emissions unit, document and maintain the following records:
- (A) A description of the project.
- (B) Identification of any emissions unit whose emissions of a regulated new source review pollutant could be affected by the project.
- (C) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including:
  - (i) Baseline actual emissions;
  - (ii) Projected actual emissions;
  - (iii) Amount of emissions excluded under section 326 IAC 2-2-1(rr)(2)(A)(iii) and/or 326 IAC 2-3-1(mm)(2)(A)(iii); and
  - (iv) An explanation for why the amount was excluded, and any netting calculations, if applicable.

(2) Monitor the emissions of any regulated NSR pollutant that could increase as a result of the project and that is emitted by any existing emissions unit identified in (1)(B) above; and

(3) Calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of five (5) years following resumption of regular operations after the change, or for a period of ten (10) years following resumption of regular operations after the change if the project increases the design capacity of or the potential to emit that regulated NSR pollutant at the emissions unit.

C.19 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] [326 IAC 2-2] [326 IAC 2-3]

(a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported except that a deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. This report shall be submitted no later than thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

(b) The address for report submittal is:

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) 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.

(d) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

(e) If the Permittee is required to comply with the recordkeeping provisions of (c) in Section C- General Record Keeping Requirements for any "project" (as defined in 326 IAC 2-2-1 (qq) and/or 326 IAC 2-3-1 (ll)) at an existing emissions unit, and the project meets the following criteria, then the Permittee shall submit a report to IDEM, OAQ:

(1) The annual emissions, in tons per year, from the project identified in (c)(1) in Section C- General Record Keeping Requirements exceed the baseline actual emissions, as documented and maintained under Section C- General Record Keeping Requirements (c)(1)(C)(i), by a significant amount, as defined in 326 IAC 2-2-1 (xx) and/or 326 IAC 2-3-1 (qq), for that regulated NSR pollutant, and

(2) The emissions differ from the preconstruction projection as documented and maintained under Section C- General Record Keeping Requirements (c)(1)(C)(ii).

(f) The report for project at an existing emissions unit shall be submitted no later than sixty (60) days after the end of the year and contain the following:

(1) The name, address, and telephone number of the major stationary source.

(2) The annual emissions calculated in accordance with (c)(2) and (3) in Section C- General Record Keeping Requirements.

(3) The emissions calculated under the actual-to-projected actual test stated in 326 IAC 2-2-2(d)(3) and/or 326 IAC 2-3-2(c)(3).

(4) Any other information that the Permittee wishes to include in this report such as an explanation as to why the emissions differ from the preconstruction projection.

Reports required in this part 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

(g) The Permittee shall make the information required to be documented and maintained in accordance with (c) in Section C - General Record Keeping Requirements available for review upon a request for inspection by IDEM, OAQ. The general public may request this information from the IDEM, OAQ under 326 IAC 17.1.

Stratospheric Ozone Protection

C.20 Compliance with 40 CFR 82 and 326 IAC 22-1

Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with applicable standards for recycling and emissions reduction.

SECTION D.1 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: **Burns Harbor Site**

(a) An open air Slag Pot Dumping operation constructed in 1969 which receives slag pots by front end loader from the BOF, identified as EU001-01, with a maximum of 5 slag pots per hour, with collective fugitive emissions EP001-9011.

(b) An open air Slag Pot Preparation operation constructed in 1969, identified as EU001-04, consisting of relining and conditioning of empty pots, with pot material additive, with collective fugitive emissions EP001-9001.

(c) An open air Blast Furnace and BOF Slag Batch Unloading/Processing/Loading operation (Separation Plant) constructed in 1969, and modified in 2010, identified as EU001-02, with a maximum capacity of 1,150 tons of material per hour, with PM controlled by water sprays, consisting of the following equipment:

(1) One (1) grizzly and feed hopper with a maximum capacity of 350 tons per hour.
(2) One (1) No. 101 feeder with a maximum capacity of 1,150 tons per hour.
(3) One (1) No. 102 belt feeder with a maximum capacity of 1,000 tons per hour.
(4) One (1) No. 103 72” drum magnet.
(5) One (1) No. 103-A swinging pendulum magnet.
(6) One (1) No. 104 main conveyor with a maximum capacity of 1,260 tons per hour.
(7) One (1) 42” mag head pulley.
(8) One (1) Nos. 105 and 106 screens with a maximum capacity of 630 tons per hour each.
(9) One (1) No. 107 conveyor with a maximum capacity of 550 tons per hour.
(10) One (1) No. 109 radial stacker with a maximum capacity of 550 tons per hour.
(11) One (1) 30” mag head pulley.
(12) One (1) No. 107-A conveyor with a maximum capacity of 550 tons per hour.
(13) One (1) No. 110 radial stacker with a maximum capacity of 550 tons per hour.
(14) One (1) 24” mag head pulley.
(15) One (1) No. 111 crusher with a maximum capacity of 700 tons per hour.
(16) One (1) No. 108 conveyor with a maximum capacity of 300 tons per hour.
(17) One (1) No. 139 conveyor with a maximum capacity of 210 tons per hour.
(18) One (1) No. 140 conveyor with a maximum capacity of 550 tons per hour.
(19) One (1) No. 141 secondary crusher with a maximum capacity of 25 tons per hour.
(20) One (1) No. 142 recirculatory conveyor with a maximum capacity of 250 tons per hour.
(21) One (1) No. 143 conveyor with a maximum capacity of 225 tons per hour.
(22) One (1) No. 144 secondary crusher with a maximum capacity of 225 tons per hour.
(23) One (1) No. 145 recirculatory conveyor with a maximum capacity of 225 tons per hour.
(24) One (1) No. 112 recirculatory conveyor with a maximum capacity of 410 tons per hour.
(25) One (1) overband magnet.
(26) One (1) 30” mag head pulley.
(27) One (1) No. 114 recirculatory FE conveyor with a maximum capacity of 500 tons per hour.
(28) One (1) No. 120 conveyor with a maximum capacity of 110 tons per hour.
(29) One (1) No. 120F conveyor with a maximum capacity of 10 tons per hour.
(30) One (1) No. 120A screen with a maximum capacity of 110 tons per hour.
(31) One (1) No. 120B conveyor with a maximum capacity of 120 tons per hour.
(32) One (1) 42” mag head pulley.
(33) One (1) No. 120E conveyor with a maximum capacity of 10 tons per hour.
(34) One (1) No. 120C screen with a maximum capacity of 110 tons per hour.
(35) Two (2) truck loading bins.
(36) One (1) No. L-7 conveyor with a maximum capacity of 35 tons per hour.
(37) One (1) 24” mag head pulley

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

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

D.1.1 PSD and Nonattainment NSR Minor Limit [326 IAC 2-2] [326 IAC 2-1.1-5]

In order to avoid the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) and 326 IAC 2-1.1-5 (Nonattainment New Source Review), the total throughput to the Scrap Loading Bins (EU001 and EU02) shall be limited to less than 201,480 tons per twelve consecutive month period with compliance at the end of each month and their PM, PM10 and PM2.5 shall not exceed the limits in the table below:

Process	Emission Limit (lb/ton)		
	PM	PM-10	PM2.5
Scrap Loading Bins, EU001 and EU02	0.0003	0.00011	0.00011

Compliance with these limits, in conjunction with the limits in Condition D.2.1(b) and Condition D.3.1(c) shall limit the PM emissions to less than twenty-five (25) tons per year, the PM10 emissions to less than fifteen (15) tons per year, and the PM2.5 emissions to less than ten (10) tons per year. Therefore, the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-1.1-5 (Nonattainment NSR) are rendered not applicable to this modification.

D.1.2 Particulate [326 IAC 6-3-2]

(a) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the Separation Plant (EU001-02) shall not exceed the limits in the table below.

Facility/Process	Process Weight Rate (ton/hour)	Particulate Emissions Limitation (pound/hour)
Slag Pots Dumping and Handling	187	57.8
Separation Plant		
conveyor/stacker no. 104	1,260	80.6
conveyor/stacker no. 139	210	59.0
conveyor/stacker no. 107	550	70.1
conveyor/stacker no. 142	250	60.9
conveyor/stacker no. 143	225	59.8
conveyor/stacker no. 145	225	59.8
conveyor/stacker no. 108	300	63.0
conveyor/stacker no. 140	550	70.1
conveyor/stacker no. 109	550	70.1
conveyor/stacker no. 110	550	70.1
conveyor/stacker no. 107A	550	70.1
conveyor/stacker no. 112	410	66.6
conveyor/stacker no. 114	500	68.9
conveyor/stacker no. 120F	10	19.2
conveyor/stacker no. 120	110	52.2
conveyor/stacker no. 120B	120	53.1
conveyor/stacker no. 120 E	10	19.2
conveyor/stacker no. L-7	35	41.3
crusher (primary) no. 111	700	73.0
crusher (secondary) no. 141	25	35.4
crusher (secondary) no. 144	225	59.8
belt feeder (conveyor) no. 102	1000	77.6

Facility/Process	Process Weight Rate (ton/hour)	Particulate Emissions Limitation (pound/hour)
grizzly/feeder	350	64.8
feeder no. 101	1150	79.4
loading bin	1150	79.4
loading bin	11.5	21.0
loading bin (scrap), EU001	11.5	21.0
loading bin (scrap), EU02	11.5	21.0
magnet (drum) no. 103	11.5	21.0
magnet (pendulum) no. 103A	11.5	21.0
magnet (overband)	11.5	21.0
magnet (pulley) 42"	11.5	21.0
magnet (pulley) 30"	11.5	21.0
magnet (pulley) 24"	11.5	21.0
magnet (pulley) 30"	11.5	21.0
screen no. 105	630	71.8
screen no. 106	630	71.8
screen no. 120 A	110	52.2
screen no. 120C	110	52.2

The pound per hour limitations above were calculated using the following equation:

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

$E = 4.10\ P^{0.67}$ where E = rate of emission in pounds per hour and
P = process weight rate in tons per hour

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

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

(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.1.3 Preventative Maintenance Plan [326 IAC 2-7-5(13)]

The Preventative Maintenance Plan is required for this facility and its emission control devices. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

Compliance Determination Requirements

D.1.4 Particulate Matter [326 IAC 2-7-6(6)]

In order to comply with Condition D.1.1 and D.1.2, the Permittee shall use wet suppression to control emissions of PM and PM-10 from the conveyors, screens, feeders, hoppers, crushers, magnetic head pulleys, and stackers. The suppressant shall be applied in a manner and at a frequency sufficient to ensure compliance with 326 IAC 2-2, 326 IAC 2-1.1-5 and 326 IAC 6-3. 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 0.92 percent.

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

D.1.5 Visible Emissions Notations

(a) Visible emission notations of all process emission points shall be performed once per day 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) If abnormal emissions are observed, the Permittee shall take reasonable response. Section C- Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps 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

(a) To document the compliance status with Condition D.1.1, the Permittee shall maintain records of the Scrap Loading Bin, EU001 and Scrap Loading Bin, EU002 throughput weight for each compliance period.

(b) To document the compliance status with condition D.1.4, the Permittee shall maintain records of the chemical analysis of the slag material, as needed, to demonstrate compliance during times the wet suppression is not used due to weather.

(c) To document the compliance status with condition D.1.5, the Permittee shall maintain a daily record of visible emission notations of the process emission points. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).

(d) Section C - General Record Keeping Requirements of this permit contains the Permittee's obligations with regard to the records required by this condition.

D.1.7 Reporting Requirements

A quarterly report of the Scrap Loading Bins EU001 and EU002 throughput weight and a quarterly summary of the information to document the compliance status with D.1.1 shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official," as defined by 326 IAC 2-7-1 (34).

SECTION D.2 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: **Burns Harbor Site**

(d) An open air Blast Furnace and BOF Slag Finishing Plant constructed in 2003, identified as EU001-05, with a maximum capacity of 250 tons of material per hour, with particulate fugitive emissions controlled by wet suppression, consisting of the following pieces of equipment:

(1) Two Syntron Feeders (F1 and F2), with a capacity of 250 tons per hour each.
(2) One conveyor (B), with a capacity of 250 tons per hour.
(3) One conveyor (A1), with a capacity of 250 tons per hour.
(4) One Screen, with a capacity of 250 tons per hour.
(5) One Stacker conveyor (C), with a capacity of 48 tons per hour.
(6) One conveyor (D), with a capacity of 250 tons per hour.
(7) One conveyor (E), with a capacity of 250 tons per hour.
(8) One Screen (SC2), with a capacity of 250 tons per hour.
(9) One conveyor (F), with a capacity of 110 tons per hour.
(10) One conveyor (G), with a capacity of 110 tons per hour.
(11) One conveyor (H), with a capacity of 50 tons per hour.
(12) One horizontal screen (SC3), with a capacity of 50 tons per hour.
(13) One radial stack conveyor (S4), with a capacity of 110 tons per hour.
(14) One radial stack conveyor (S5), with a capacity of 50 tons per hour.
(15) One conveyor (I), with a capacity of 200 tons per hour.
(16) One conveyor (J), with a capacity of 113 tons per hour.
(17) One conveyor (K), with a capacity of 113 tons per hour.
(18) One radial stack conveyor (S2), with a capacity of 113 tons per hour.
(19) One conveyor/stacker CC1, with a capacity of 50 tons per hour.
(20) One conveyor/stacker CC2, with a capacity of 200 tons per hour.
(21) Four additional conveyors constructed in 2004:

(A) One conveyor (T1), with a capacity of 200 tons per hour.
(B) One conveyor (T2), with a capacity of 200 tons per hour.
(C) One conveyor (T3), with a capacity of 48 tons per hour.
(D) One conveyor (A2), with a capacity of 250 tons per hour.

(22) One (1) crusher, with a maximum capacity of 200 tons per hour, approved in 2010 for construction.
(23) Three (3) truck loading bins, approved in 2010 for construction.

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

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

D.2.1 PSD and Nonattainment NSR Minor Limit [326 IAC 2-2] [326 IAC 2-1-1.5]

(a) In order to avoid the requirements of Prevention of Significant Deterioration, the throughput to the Finishing Plant (EU001-05) shall be limited to less than 1,752,000 tons per twelve consecutive month period with compliance at the end of each month and the PM, and PM-10, emission rates from the following emission units at the Finishing Plant (EU001-05) shall not exceed the limits indicated below:

Process	Emission Limit (lb/ton)	
	PM	PM-10
Two Syntron Feeders, A1, A2	0.0003	0.00011
Conveyor/stacker, A1	0.0003	0.00011
Conveyor/stacker, B	0.0003	0.00011
Conveyor/stacker, C	0.0003	0.00011
Conveyor/stacker, D	0.0003	0.00011
Conveyor/stacker, E	0.0003	0.00011
Conveyor/stacker, F	0.0003	0.00011
Conveyor/stacker, G	0.0003	0.00011
Conveyor/stacker, H	0.0003	0.00011
Conveyor/stacker, I	0.0003	0.00011
Conveyor/stacker, J	0.0003	0.00011
Two (2) Screens, DD, SC2	0.0025	0.00087
Screen SC3	0.0025	0.00087
Conveyor/radial Stacker S2	0.0003	0.00011
Conveyor/radial Stacker, S4	0.0003	0.00011
Conveyor/radial Stacker, S5	0.0003	0.00011
Conveyor/radial Stacker, CC1	0.0003	0.00011
Conveyor/radial Stacker, CC2	0.0003	0.00011

Compliance with these limits, shall limit the PM emission to less than 25 tons/year and PM10 emissions to less than 15 tons per year from the Finishing Plant. Therefore, 326 IAC 2-2 (Prevention of Significant Deterioration) are rendered not applicable to this modification.

(b) In order to avoid the requirements of Prevention of Significant Deterioration and Nonattainment New Source Review the PM, PM10 and PM2.5 emission for the following emission units at the Finishing Plant (EU001-05) shall not exceed the limits indicated below:

Process	Emission Limit (lb/ton)		
	PM	PM-10	PM2.5
Crusher	0.00054	0.00024	0.00024
Truck Loading Bin	0.0003	0.00011	0.00011
Truck Loading Bin, CAII	0.0003	0.00011	0.00011
Truck Loading Bin FA20	0.0003	0.00011	0.00011

Compliance with these limits, in conjunction with the limits in Conditions D.1.1, throughput limit in D.2.1, D.3.1(b) and (c), shall limit the PM emission to less than 25 tons/year, PM10 emissions to less than 15 tons per year and PM2.5 to less than 10 tons per year. Therefore, 326 IAC 2-2 (Prevention of Significant Deterioration) and Nonattainment NSR (326 IAC 2-1-1.5) are rendered not applicable to this modification.

D.2.2 Particulate [326 IAC 6-3-2]

(a) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the Finishing Plant (EU001-05) shall not exceed the limits in the table below

Facility/Process	Process Weight Rate (ton/hour)	Particulate Emissions Limitation (pound/hour)
Finishing Plant		
Feeder, A1	350	64.8
Feeder, A2	350	64.8
Conveyor/stacker, A1	250	60.9
Conveyor/stacker, B	250	60.9
Conveyor/stacker, A2	250	60.9
Conveyor/stacker, T3	48	44.2
Conveyor/stacker, C	48	44.2
Conveyor/stacker, T1	200	58.5
Conveyor/stacker, T2	200	58.5
Conveyor/stacker, D	250	60.9
Conveyor/stacker, E	250	60.9
Conveyor/stacker, J	113	52.5
Conveyor/stacker K	113	52.5
Conveyor/radial stacker, S2	113	52.5
Conveyor/stacker, I	200	58.5
Conveyor/radial stacker, CC2	200	58.5
Conveyor/radial stacker, S5	50	44.6
Conveyor/stacker, H	50	44.6
Conveyor/radial stacker, S4	110	52.2
Conveyor/stacker, F	110	52.2
Conveyor/stacker, G	110	52.2
Conveyor/stacker, T1	200	58.5
Conveyor/stacker, T2	200	58.5
Conveyor/stacker, CC1	50	44.6
Crusher	200	58.5
Screen, DD	250	60.9
Screen, SC2	250	60.9
Screen, SC3	50	44.6
Truck loading bin	105	51.8
Truck loading bin, CA II	105	51.8
Truck loading bin, FA20	105	51.8

The pound per hour limitations above were calculated using the following equation:

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

$E = 55.0\ P^{0.11} - 40$ where E = rate of emission in pounds per hour and
P = 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.2.3 Preventative Maintenance Plan [326 IAC 2-7-5(13)]

The Preventative Maintenance Plan is required for this facility and its emission control devices. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

Compliance Determination Requirements

D.2.4 Particulate Matter [326 IAC 2-7-6(6)]

In order to comply with Condition D.2.1 and D.2.2, the Permittee shall use wet suppression to control emissions of PM, PM_{10} and $PM_{2.5}$ emissions from the conveyors, screens, feeders, hoppers, and stackers. The suppressant shall be applied in a manner and at a frequency sufficient to ensure compliance with 326 IAC 2-2, 326 IAC 2-1.1-5 and 326 IAC 6-3... If weather conditions preclude the use of wet suppression, the Permittee shall perform chemical analysis on the slag material to ensure its moisture content is greater than 0.92 percent.

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

D.2.5 Visible Emissions Notations

(a) Visible emission notations of all process emission points shall be performed once per day 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) If abnormal emissions are observed, the Permittee shall take reasonable response. Section C- Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps 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.2.6 Record Keeping Requirements

(a) To document the compliance status with Conditions D.2.1(a) and (b), the Permittee shall maintain records of the throughput weight from each Finishing Plant (EU001-05) emission unit for each compliance period.

(b) To document the compliance status with condition D.2.4, the Permittee shall maintain records of the chemical analysis of the slag material, as needed, to demonstrate compliance during times the wet suppression is not used due to weather.

(c) To document the compliance status with condition D.2.5, the Permittee shall maintain a daily record of visible emission notations of the process emission points. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for a lack of visible emission notation (e.g. the process did not operate that day).

(d) Section C - General Record Keeping Requirements of this permit contains the Permittee's obligations with regard to the records required by this condition.

D.2.7 Reporting Requirements

A quarterly summary of the information to document the compliance status with Conditions D.2.1(a) and (b), shall be submitted no later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require the certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

SECTION D.3 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: **Burns Harbor Site**

(e) One (1) portable crushing and screening operation, constructed in 2007, with a maximum capacity of 600 tons of slag per hour, with particulate fugitive emissions controlled by wet suppression, consisting of:

(1) Two (2) portable crushers each with a maximum capacity of 300 tons per hour.
(2) One (1) portable screen with a maximum capacity of 300 tons per hour, powered by a 70 Hp diesel engine.
(3) Nine (9) portable conveyors each with a maximum capacity of 300 tons per hour

(f) One (1) portable barge loading unit for nut coke and slag, consisting of a feed hopper and conveyor/stacker with a maximum capacity of 300 tons per hour, constructed in 2006.

(g) One (1) portable barge loading unit for slag, consisting of a feed hopper, screen, and conveyor/stacker with a maximum capacity of 400 tons per hour, approved in 2010 for construction.

(h) One (1) portable boat loading unit for slag, consisting of a feed hopper and conveyor/stacker with a maximum capacity of 1500 tons per hour, approved in 2010 for construction.

(i) One (1) portable stacking unit for slag, consisting of a feed hopper and conveyor/stacker with a maximum capacity of 250 tons per hour, approved in 2010 for construction.

(j) One (1) portable screen unit for slag and scarfing material, consisting of a screen and conveyor/stacker, with a maximum capacity of 250 tons per hour, approved in 2010 for construction.

(k) One (1) portable screen unit for slag, consisting of a feed hopper and conveyor/stacker with a maximum capacity of 250 tons per hour, permitted for construction in 2010.

(l) Two (2) portable stackers with a maximum capacity of 200 tons per hour each, approved in 2010 for construction.

(m) Two (2) portable generators one (1) with a maximum capacity of 205 kw and one (1) with a maximum capacity of 250 kw, approved in 2010 for construction.

(n) One (1) portable generator with a maximum capacity of 105 kw, approved in 2010 for construction.

(o) Four (4) portable conveyors, each with a maximum capacity of 450 tons per hour, approved in 2011 for construction.

(p) Stock piles and product storage piles located at Port of Indiana storage yard, Portage.

(q) One (1) portable loader with feeder and conveyor/stacker (2 drop points, each drop point with a maximum capacity of 450 tons/hour, approved in 2011 for construction.

(r) One Portable Plant No. 2, approved in 2011 for construction consisting of:

(1) One (1) grizzly, with a maximum capacity of 500 tons per hour.
(2) One (1) feed hopper, with a maximum capacity of 500 tons per hour.
(3) Three (3) conveyors, each with a maximum capacity of 500 tons per hour.
(4) One (1) feeder, with a maximum capacity of 500 tons per hour.
(5) One (1) screen, with a maximum capacity of 500 tons per hour.
(6) Four (4) screen output conveyors (4 split: 3 discharge and 1 return), with a maximum capacity of 500 tons per hour.

Facility Description [326 IAC 2-7-5(15)]: **Burns Harbor Site** continuation

(7) Four (4) stacker/conveyors (4 split: 2 stackers, 1 finishing and 1 spare), with a maximum capacity of 500 tons per hour.
(8) One (1) impactor/crusher, with a maximum capacity of 500 tons per hour.
(9) Three (3) magnets with a maximum capacity of 15 tons per hour
(10) Two (2) portable diesel fired generator, one with a capacity of 535 Hp and one with a capacity of 630 Hp.
(11) Two (2) portable diesel fired engines, one with a capacity of 75 Hp and one with a capacity of 65 Hp.

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

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

D.3.1 PSD and Nonattainment NSR Minor Limit [326 IAC 2-2] [326 IAC 2-1.1-5]

(a) In order to avoid the requirements of 326 IAC 2-2 **(**Prevention of Significant Deterioration) and 326 IAC 2-1.1-5 (Nonattainment New Source Review), the slag throughput to the Portable Crushing and Screening Plant shall be limited to less than 2,628,000 tons per twelve consecutive month period with compliance at the end of each month and the PM, PM10 and PM2.5 from the following emission units at the Portable Crushing and Screening Plant shall not exceed the limits in the table below:

Process	Emission Limit (lb/ton)		
	PM	PM-10	PM2.5
Two Crushers	0.00054	0.00024	0.00024
Screen	0.0025	0.00087	0.00087
Nine Conveyors	0.0003	0.00011	0.00011

Compliance with this condition shall limit the PM emissions from the portable crushing and screening operation to less than twenty-five (25) tons/yr PM-10 to less than fifteen (15) tons/yr and PM2.5 to less than 10 tons/year. Therefore,-the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-1.1-5 (Nonattainment NSR) are rendered not applicable to this modification.

(b) In order to avoid the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) and 326 IAC 2-1.1-5 (Nonattainment New Source Review), the PM, PM10 and PM2.5 from the following emission units at the Portable Crushing and Screening Plant shall not exceed the limits in the table below:

Process	Emission Limit (lb/ton)		
	PM	PM-10	PM2.5
Portable barge loading unit for slag (feeder/conveyor, stacker & screen)	0.0003 feeder/conveyor, stacker & screen	0.00011 feeder/conveyor, stacker & screen	0.00011 feeder/conveyor, stacker & screen
Portable barge loading unit for nut coke and slag (feeder/conveyor & stacker)	0.0003 feeder/conveyor & stacker	0.00011 feeder/conveyor & stacker	0.00011 feeder/conveyor & stacker
Portable boat loader (feeder/conveyor, & stacker)	0.0003 feeder/conveyor & stacker	0.00011 feeder/conveyor & stacker	0.00011 feeder/conveyor & stacker
Portable stacker (feeder/conveyor & stacker	0.0003 feeder/conveyor & stacker	0.00011 feeder/conveyor & stacker	00.00011 feeder/conveyor & stacker

Process	Emission Limit (lb/ton)		
	PM	PM-10	PM2.5
Screen (screen & stacker/conveyor	0.0025 screen 0.0003 stacker/conveyor	0.00087 screen 0.00011 stacker/conveyor	0.00087 screen 0.00011 stacker/conveyor
Stacker (Conveyor/stacker)	0.0003	0.00011	0.00011

Compliance with these limits, in addition to the limits from the portable generators in Conditions D.1.1, D.2.1(b), throughput limit in D.3.1(a) and D.3.1(c), shall limit the PM emissions to less than 25 tons per year, the PM10 emissions to less than 15 tons per year, and the PM2.5 emissions to less than 10 tons per year. Therefore, the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-1.1-5 (Nonattainment NSR) are rendered not applicable to this modification.

(c) In order to avoid the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) and 326 IAC 2-1.1-5 (Nonattainment New Source Review), the Permittee shall limit the throughput of diesel fuel to the portable seven (7) generators and engines to less than a total of 124,830 gallons per twelve (12) consecutive month period with compliance determined at the end of each month. The NOx emissions from the portable seven (7) generators and engines shall not exceed 0.639 pound/gallon of diesel fuel used.

Compliance with the fuel usage and NOx emission rate limits shall limit the NOx emissions from the portable generators and engines to less than 40 tons per year. Therefore, the requirements of 326 IAC 2-2 (PSD) are rendered not applicable to this modification.

Compliance with this condition in conjunction with Conditions D.1.1, D.2.1(b), throughput limit in D.3.1(a) and D.3.1(b) shall limit the PM emissions to less than 25 tons/year, PM10 emissions to less than 15 tons/year and PM2.5 to less than 10 tons/year. Therefore, the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-1.1-5 (Nonattainment NSR) are rendered not applicable to this modification.

(d) In order to avoid the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) and 326 IAC 2-1.1-5 (Nonattainment New Source Review), the throughput to the Portable Plant No. 2 shall be limited to less than 4,380,000 tons per twelve consecutive month period with compliance at the end of each month and the PM, PM10 and PM2.5 emissions from the following emission units at the Portable Plant No.2 shall not exceed the limits indicated below:

Process	Emission Limit (lb/ton)		
	PM	PM-10	PM2.5
Grizzly	0.0003	0.00011	0.00011
Feed Hopper	0.0003	0.00011	0.00011
Conveyor No.3	0.0003	0.00011	0.00011
Feeder	0.0003	0.00011	0.00011
Conveyor No.5	0.0003	0.00011	0.00011
Screen	0.0025	0.00087	0.00087
Screen output conveyors	0.0025	0.00087	0.00087
Stacker/conveyors	0.0003	0.00011	0.00011
Impactor (crusher)	0.00054	0.00024	0.00024
Magnets	0.0003	0.00011	0.00011
4 Conveyors	0.0003	0.00011	0.00011
Conveyor/Stacker (2 drop points)	0.0003	0.00011	0.00011

Compliance with these limits, in conjunction with the limits in Condition D.3.1(c) shall limit the PM emissions to less than twenty-five (25) tons per year, the PM10 emissions to less than fifteen (15)

tons per year, and the PM2.5 emissions to less than ten (10) tons per year. Therefore, the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-1.1-5 (Nonattainment NSR) are rendered not applicable to this modification.

D.3.2 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the Finishing Plant (EU001-05) shall not exceed the limits in the table below

Facility/Process	Process Weight Rate (ton/hour)	Particulate Emissions Limitation (pound/hour)
Portable Equipment		
Barge Loader: Feeder/Conveyor	300	63.0
Stacker	300	63.0
Barge Loader: Feeder/Conveyor	400	66.3
Screen	400	66.3
Stacker	400	66.3
Boat Loader: Feeder/Conveyor	1,500	82.9
Stacker	1,500	82.9
Crushing and Screening Operations: Crusher	300	63.0
Crusher	300	63.0
Screen	300	63.0
9 Conveyors	300	63.0
	300 total	63.0
Stacker: Feeder/Conveyor	250	60.9
Stacker	250	60.9
Screen Unit: Screen	250	60.9
Stacker/Conveyor	250	60.9
Screen Unit: Feeder/Conveyor	250	60.9
Screen	250	60.9
Conveyor/Stacker	250	60.9
Stacker: Conveyor/Stacker	200	58.5
Stacker: Conveyor/Stacker	200	58.5
Slag Pots Dumping and Handling	187	57.8
Additional Portable Equipment		
4 Portable Conveyors	450 each	67.7 each
Portable Loader: Feeder	450	67.7
Conveyor/Stacker	450	67.7
Portable Plant No.2		
Grizzly	500	68.9
Feed Hopper	500	68.9

Facility/Process	Process Weight Rate (ton/hour)	Particulate Emissions Limitation (pound/hour)
Conveyor	500	68.9
Feeder	500	68.9
Conveyor	500	68.9
Conveyor	500	68.9
Screen	500	68.9
Stacker/Conveyor	500	68.9
Impactor (Crusher)	500	68.9

The pound per hour limitations above were calculated using the following equation:

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

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

(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.3.3 Nonroad Engines [326 IAC 20-82] [40 CFR 63, Subpart ZZZZ] [40 CFR 1068.30]

In order to render the requirements of 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 all the generators as described in items (m), (n) and (r)(10) and (11) of this SECTION D.3, description box are nonroad engines, as defined in 40 CFR 1068.30, the Permittee shall comply with the following:

(a) Any of the generators as described in item (m) through item (fffff) of this SECTION D.3, description box, shall remain at a location for a period not to exceed twelve (12) consecutive months.

(b) For the purposes of this condition and pursuant to 40 CFR 1068.30 *Nonroad Engine* (2)(iii), a location is any single site at a building, structure, facility, or installation.

Compliance with this condition shall render the requirements of 40 CFR 63, Subpart ZZZZ (National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines) not applicable to these generators.

D.3.4 Preventative Maintenance Plan [326 IAC 2-7-5(13)]

The Preventative Maintenance Plan is required for this facility and its emission control devices. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

Compliance Determination Requirements

D.3.5 Particulate Matter [326 IAC 2-7-6(6)]

In order to comply with Condition D.3.1 (a), (b), (d) and D.3.2, the The Permittee shall use wet suppression to control emissions of PM and PM-10 from the crushers, screens, and conveyors. The suppressant shall be applied in a manner and at a frequency sufficient to ensure compliance with 326 IAC 2-2, 326 IAC 2-1.1-5 and 326 IAC 6-3. 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 0.92 percent.

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

D.3.6 Visible Emissions Notations

(a) Visible emission notations of all process emission points shall be performed once per day 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) If abnormal emissions are observed, the Permittee shall take reasonable response. Section C-Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps 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.3.7 Record Keeping Requirements

(a) To document the compliance status with Condition D.3.1(a), D.3.1(b) and D.3.1(d), the Permittee shall maintain monthly records of the throughput of slag to the portable crushing and screening operation, portable plant no. 2 and to individual portable equipment limited in D.3.1(b).

(b) To document the compliance status with Condition D.3.1(c), the Permittee shall maintain monthly records of the throughput of diesel fuel to the portable generators.

(c) To document the compliance status with condition D.3.5, the Permittee shall maintain records of the chemical analysis of the slag material, as needed, to demonstrate compliance during times the wet suppression is not used due to weather.

(d) To document the compliance status with condition D.3.6, the Permittee shall maintain a daily record of visible emission notations of the process emission points. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).

(e) Section C - General Record Keeping Requirements of this permit contains the Permittee's obligations with regard to the records required by this condition.

D.3.8 Reporting Requirements

A quarterly summary of the information to document the compliance status with Conditions D.3.1(a) through (d) shall be submitted no later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require the certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

SECTION D.4 FACILITY OPERATION CONDITIONS

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

(a) Degreasing operations that do not exceed 145 gallons per 12 month, except if subject to 326 IAC 20-6. [326 IAC 8-3]

(b) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment. [326 IAC 6-3-2]

(c) Activities with emissions equal to or less than insignificant thresholds [326 IAC 2-7-1(21)]:

(1) 17,000 gallon diesel AST identified as EE001-9011 [326 IAC 8-9];
(2) 11,000 gallon diesel AST identified as EE001-9012 [326 IAC 8-9]; and
(3) Iron breakup processing identified as EE001-9014.

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

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

D.4.1 Insignificant Activities [326 IAC 2-7-1(21)]

The emissions from activities EE001-9011, EE001-9012, and EE001-9014 shall remain below the thresholds listed below to be considered as insignificant:

Lead (Pb)= 0.6 ton/year or 3.29 lbs/day	Carbon Monoxide (CO)= 25lbs/day
Sulfur Dioxide (SO2)= 5 lbs/hr or 25 lbs/day	Particulate Matter (PM)= 5 lbs/hr or 25 lbs/day
Nitrogen Oxides (NOx)= 5 lbs/hr or 25 lbs/day	Volatile Organic Compounds (VOC)= 3 lbs/hr or 15 lbs/day

D.4.2 Volatile Organic Liquid Storage Vessels [326 IAC 8-9]

Pursuant to 326 IAC 8-9-1(b), stationary vessels with a capacity of less than thirty-nine thousand (39,000) gallons (EE001-9011 and 9012) are subject to the reporting and record keeping provisions of section 6(a) and 6(b) of this rule and are exempt from all other provisions of this rule.

D.4.3 Volatile Organic Compounds (VOC) [326 IAC 8-3]

Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), for cold cleaner degreaser operations without remote solvent reservoirs, the Permittee shall ensure that the following requirements are met:

(1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:

(A) The solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F));

(B) The solvent is agitated; or

(C) The solvent is heated.

(2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.

(3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).

(4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.

(5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9°C) (one hundred twenty degrees Fahrenheit (120°F)):

(A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.

(B) A water cover when solvent is used is insoluble in, and heavier than, water.

(C) Other systems of demonstrated equivalent control such as a refrigerated chiller of carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.

Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaning facility construction of which commenced after July 1, 1990, shall ensure that the following operating requirements are met:

(1) Close the cover whenever articles are not being handled in the degreaser.

(2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.

(3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

D.4.4 Volatile Organic Compounds (VOC) [326 IAC 8-3]

Pursuant to 326 IAC 8-3-8 (Material requirements for cold cleaning degreasers), the users, providers, and manufacturers of solvents for use in cold cleaning degreasers in Clark, Floyd, Lake, and Porter Counties, except for solvents intended to be used to clean electronic components shall do the following:

(a) On and after May 1, 2001, no person shall Operate a cold cleaning degreaser with a solvent vapor pressure that exceeds one (1) millimeter of mercury (nineteen-thousandths (0.019) pound per square inch) measured at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).

(b) On and after November 1, 1999, all persons subject to the requirements of 326 IAC 8-3-8(c)(1)(B) and (c)(2)(B) shall maintain each of the following records for each purchase:

(1) The name and address of the solvent supplier.

(2) The date of purchase.

(3) The type of solvent.

(4) The volume of each unit of solvent.

(5) The total volume of the solvent.

(6) The true vapor pressure of the solvent measured in millimeters of mercury at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).

(c) All records required by 326 IAC 8-3-8 (d) shall be retained on-site for the most recent three (3) year period and shall be reasonably accessible for an additional two (2) year period.

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

D.4.5 Record Keeping Requirements

(a) To document the compliance status with Condition D.4.2, and pursuant to 326 IAC 8-9, the Permittee must keep records of the following:

(1) The vessel identification number;

(2) The vessel dimensions; and

(3) The vessel capacity.

Records shall be maintained for the life of the vessel.

(b) Section C - General Record Keeping Requirements, of this permit contains the Permittee's obligations with regard to the records required by this condition.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY

PART 70 OPERATING PERMIT
CERTIFICATION

Source Name: The Levy Company, Inc.
Source Address: U.S. Highway 12, Burns Harbor, Indiana 46304
Part 70 Permit No.: T127-29719-00026

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 AND ENFORCEMENT BRANCH
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
Phone: 317-233-0178
Fax: 317-233-6865

PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT

Source Name: The Levy Company, Inc.
Source Address: U.S. Highway 12, Burns Harbor, Indiana 46304
Part 70 Permit No.: T127-29719-00026

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), no later than four (**4**) business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and
- ☐ The Permittee must submit notice in writing or by facsimile no later than two (**2**) days (Facsimile Number: 317-233-6865), 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 Describe: Type of Pollutants Emitted: TSP, PM-10, SO_2, VOC, NO_X, 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: _____

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

Part 70 Quarterly Report

Source Name: Levy Company, Inc.
Source Address: US Hwy 12, Burns Harbor, IN 46304
Part 70 Permit No.: T127-29719-00026
Facility: One (1) Portable Crushing and Screening Operation
Parameter: Throughput of slag
Limit: The total throughput of slag to the Portable Crushing and Screening Operation shall be limited to less than 2,628,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	Slag Throughput This Month	Slag Throughput Previous 11 Months	Slag Throughput 12 Month Total
Month 1			
Month 2			
Month 3			

☐ No deviation occurred in this quarter.

☐ Deviation/s occurred in this quarter.
Deviation has been reported on:

Submitted by:
Title / Position:
Signature:
Date:
Phone:

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

Part 70 Quarterly Report

Source Name: Levy Company, Inc.
Source Address: US Hwy 12, Burns Harbor, IN 46304
Part 70 Permit No.: T127-29719-00026
Facility: Five (5) portable generators (maximum capacities: 396 Hp, 310 Hp, 290 Hp, 535 Hp, 630 Hp)
Two (2) engines (maximum capacities: 65 Hp, 76 Hp)
Parameter: Diesel fuel usage.
Limit: The total throughput of diesel fuel to the portable generators shall be limited to less than 124,830 gallons per twelve (12) consecutive month period with compliance determined at the end of each month.

YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	Total Diesel Fuel Usage This Month	Total Diesel Fuel Usage Previous 11 Months	Total Diesel Fuel Usage 12 Month Total
Month 1			
Month 2			
Month 3			

☐ No deviation occurred in this quarter.

☐ Deviation/s occurred in this quarter.
Deviation has been reported on:

Submitted by:
Title / Position:
Signature:
Date:
Phone:

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

Part 70 Quarterly Report

Source Name: Levy Company, Inc.
Source Address: US Hwy 12, Burns Harbor, IN 46304
Part 70 Permit No.: T127-29719-00026
Facility: Finishing Plant
Parameter: Slag Throughput
Limits: The throughput to the Finishing Plant (EU001-05) shall be limited to less than 1,752,000 tons per twelve consecutive month period with compliance at the end of each month.

QUARTER:_____ YEAR:_____

Month	Column 1 Throughput This Month	Column 2 Throughput 11 Months	Column 1+2 Throughput 12 Months Total
Month 1			
Month 2			
Month 3			

☐ No deviation occurred in this quarter.
☐ Deviation/s occurred in this quarter.
Deviation has been reported on:

Submitted by: _____
Title / Position: _____
Signature:_____
Date: _____
Phone: _____

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

Part 70 Quarterly Report

Source Name: Levy Company, Inc.
Source Address: US Hwy 12, Burns Harbor, IN 46304
Part 70 Permit No.: T127-29719-00026
Facility: Scrap Loading Bins (EU001 and EU02)
Parameter: Slag Throughput
Limits: The total throughput to the Scrap Loading Bins (EU001 and EU02) shall be limited to less than 201,480 tons per twelve consecutive month period with compliance at the end of each month

QUARTER:_____ YEAR:_____

Month	Column 1 Throughput This Month	Column 2 Throughput 11 Months	Column 1+2 Throughput 12 Months Total
Month 1			
Month 2			
Month 3			

☐ No deviation occurred in this quarter.
☐ Deviation/s occurred in this quarter.
Deviation has been reported on:

Submitted by: _____
Title / Position: _____
Signature:_____
Date: _____
Phone: _____

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

Part 70 Quarterly Report

Source Name: Levy Company, Inc.
Source Address: US Hwy 12, Burns Harbor, IN 46304
Part 70 Permit No.: T127-29719-00026
Facility: Portable Plant No. 2
Parameter: Slag Throughput
Limits: The throughput to the Portable Plant No. 2 shall be limited to less than 4,380,000 tons per twelve consecutive month period with compliance at the end of each month

QUARTER:_____ YEAR:_____

Month	Column 1 Throughput This Month	Column 2 Throughput 11 Months	Column 1+2 Throughput 12 Months Total
Month 1			
Month 2			
Month 3			

☐ No deviation occurred in this quarter.
☐ Deviation/s occurred in this quarter.
Deviation has been reported on:

Submitted by: _____
Title / Position: _____
Signature:_____
Date: _____
Phone: _____

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

PART 70 OPERATING PERMIT
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT

Source Name: The Levy Company, Inc.
Source Address: U.S. Highway 12, Burns Harbor, Indiana 46304
Part 70 Permit No.: T127-29719-00026

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

Page 1 of 2

This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".	
☐ NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.	
☐ THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD	
Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Form Completed By: _____

Title/Position: _____

Date: _____

Phone: _____

THE LEVY COMPANY, INC.
AN ON-SITE CONTRACTOR AT ISG – BURNS HARBOR
BURNS HARBOR, INDIANA

FUGITIVE DUST CONTROL PLAN

REVISION 0
May 2007

Facility Description

The Levy Company (Levy) owns and operates a blast and steel furnace slag and steel mill debris processing operation located within the ISG – Burns Harbor facility in Burns Harbor, Indiana. Per 326 IAC 6-5-1(b) a fugitive dust plan is required for "Any new source of fugitive particulate matter emissions, located anywhere in the state, requiring a permit as set forth in 326 IAC 2, which has not received all the necessary preconstruction approvals before December 13, 1985. This plan addresses that new equipment.

Material Process Flow

Slag and/or steel mill debris are processed through a crusher (slag only) and a series of screens via conveyor systems. Water is sprayed on the feed pile prior to processing to minimize the generation of fugitive dust. The application of water is on an as needed basis to prevent saturating the material and blinding the screens.

Control Measures and Practices

Control measures utilized to control dust have limited application in fugitive sources. Since water application is the control measure utilized currently, application is suspended based on weather events as follows:

- during periods of rainfall (0.10 inches or more)
- when temperatures are at or below freezing

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

I. Process Operations

To help minimize dust emissions, the drop distance at each conveyor transfer point in the plant(s) is set at the minimum distance in which the equipment can operate effectively. Water is utilized, weather permitting, on the feed pile 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.

Indiana Department of Environmental Management
Office of Air Quality

Technical Support Document (TSD) for a Significant Source Modification and Part 70 Operating Permit Renewal

Source Description and Location

Source Name:	The Levy Company, Inc. - a contractor of ArcelorMittal Burns Harbor, LLC
Source Location:	250 W. US Hwy 12, Burns Harbor, IN 46304
County:	Porter
SIC Code:	3295
Significant Source Modification No.:	127-30302-00026
Part 70 Operating Permit Renewal No.:	127-29719-00026
Permit Reviewer:	Aida De Guzman

Source Definition

The Levy Company, Inc., operates a stationary blast furnace and basic oxygen furnace slag finishing operation and separation plant, and is a contractor of ArcelorMittal Burns Harbor, LLC:

(a) ArcelorMittal Burns Harbor, LLC (plant ID 127-00001), the primary operation, is located at U.S. Highway 12, Burns Harbor, Indiana; and

(b) The Levy Company (plant ID 127-00026), the secondary operation, is located at U.S. Highway 12, Burns Harbor, Indiana.

Separate Part 70 permits will be issued to ArcelorMittal Burns Harbor, LLC and The Levy Company, Inc. solely for administrative purposes.

Existing Approvals

The source was issued Part 70 Operating Permit No. 127-7656-00026 on June 30, 2006. The source has since received the following approvals:

(a) First Administrative Amendment No. 127-23652-00026, issued on October 30, 2006;

(b) First Significant Permit Modification No. 127-24655-00026, issued on October 10, 2007;

(c) Second Administrative Amendment No. 127-28456-00026, issued on October 23, 2009; and

(d) Second Significant Permit Modification No. 127-28733-00026, issued on September 24, 2010.

All terms and conditions of previous permits issued pursuant to permitting programs approved into the state implementation plan have been either incorporated as originally stated, revised, or deleted by this permit. All previous registrations and permits are superseded by this permit.

County Attainment Status

The source is located in Porter County.

Pollutant	Designation
SO_2	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_3	Attainment effective May 11, 2010, for the 8-hour ozone standard.[1]
PM_{10}	Unclassifiable effective November 15, 1990.
NO_2	Cannot be classified or better than national standards.
Pb	Not designated.

[1]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.

[1]The U. S. EPA has acknowledged in both the proposed and final rulemaking for this redesignation that the anti-backsliding provisions for the 1-hour ozone standard no longer apply as a result of the redesignation under the 8-hour ozone standard. Therefore, permits in Porter County are no longer subject to review pursuant to Emission Offset, 326 IAC 2-3.

Basic nonattainment designation effective federally April 5, 2005, for PM2.5.

(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) U.S. EPA, in the Federal Register Notice 70 FR 943 dated January 5, 2005, has designated Porter County *as* nonattainment for $PM_{2.5}$. 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 $PM_{2.5}$ promulgated on May 8, 2008. These rules became effective on July 15, 2008. Therefore, direct $PM_{2.5}$ and SO_2 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 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) Fugitive Emissions
This type of operation is in one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2, 326 IAC 2-3, or 326 IAC 2-7. Therefore, fugitive emissions are counted toward the determination of PSD, Emission Offset, and Part 70 Permit applicability.

Permitted Emission Units and Pollution Control Equipment

This stationary blast furnace and basic oxygen furnace slag finishing operation and separation plant consists of the following emission units and pollution control devices:

Burns Harbor Site

(a) An open air Slag Pot Dumping operation constructed in 1969 which receives slag pots by pot carrier from the BOF, identified as EU001-01, with collective fugitive emissions EP001-9011.

(b) An open air Slag Pot Preparation operation constructed in 1969, identified as EU001-04, consisting of relining and conditioning of empty pots, with pot material additive, with collective fugitive emissions EP001-9001.

(c) An open air Blast Furnace and BOF Slag Batch Unloading/Processing/Loading operation (Separation Plant) constructed in 1969, and modified in 2010, identified as EU001-02, with a maximum capacity of 1,150 tons of material per hour, with particulate fugitive emissions controlled by water sprays, consisting of the following equipment:

(1) One (1) grizzly and feed hopper with a maximum capacity of 350 tons per hour.
(2) One (1) No. 101 feeder with a maximum capacity of 1,150 tons per hour.
(3) One (1) No. 102 belt feeder with a maximum capacity of 1,000 tons per hour.
(4) One (1) No. 103 72” drum magnet.
(5) One (1) No. 103-A swinging pendulum magnet.
(6) One (1) No. 104 main conveyor with a maximum capacity of 1,260 tons per hour.
(7) One (1) 42” mag head pulley.
(8) One (1) Nos. 105 and 106 screens with a maximum capacity of 630 tons per hour each.
(9) One (1) No. 107 conveyor with a maximum capacity of 550 tons per hour.
(10) One (1) No. 109 radial stacker with a maximum capacity of 550 tons per hour.
(11) One (1) 30” mag head pulley.
(12) One (1) No. 107-A conveyor with a maximum capacity of 550 tons per hour.
(13) One (1) No. 110 radial stacker with a maximum capacity of 550 tons per hour.
(14) One (1) 24” mag head pulley.
(15) One (1) No. 111 crusher with a maximum capacity of 700 tons per hour.
(16) One (1) No. 108 conveyor with a maximum capacity of 300 tons per hour.
(17) One (1) No. 139 conveyor with a maximum capacity of 210 tons per hour.
(18) One (1) No. 140 conveyor with a maximum capacity of 550 tons per hour.
(19) One (1) No. 141 secondary crusher with a maximum capacity of 25 tons per hour.
(20) One (1) No. 142 recirculatory conveyor with a maximum capacity of 250 tons per hour.
(21) One (1) No. 143 conveyor with a maximum capacity of 225 tons per hour.
(22) One (1) No. 144 secondary crusher with a maximum capacity of 225 tons per hour.

(23) One (1) No. 145 recirculatory conveyor with a maximum capacity of 225 tons per hour.
(24) One (1) No. 112 recirculatory conveyor with a maximum capacity of 410 tons per hour.
(25) One (1) overband magnet.
(26) One (1) 30” mag head pulley.
(27) One (1) No. 114 recirculatory FE conveyor with a maximum capacity of 500 tons per hour.
(28) One (1) No. 120 conveyor with a maximum capacity of 110 tons per hour.
(29) One (1) No. 120F conveyor with a maximum capacity of 10 tons per hour.
(30) One (1) No. 120A screen with a maximum capacity of 110 tons per hour.
(31) One (1) No. 120B conveyor with a maximum capacity of 120 tons per hour.
(32) One (1) 42” mag head pulley.
(33) One (1) No. 120E conveyor with a maximum capacity of 10 tons per hour.
(34) One (1) No. 120C screen with a maximum capacity of 110 tons per hour.
(35) Two (2) truck loading bins.
(36) One (1) No. L-7 conveyor with a maximum capacity of 35 tons per hour.
(37) One (1) 24” mag head pulley

(d) An open air Blast Furnace and BOF Slag Finishing Plant constructed in 2003, identified as EU001-05, with a maximum capacity of 250 tons of material per hour, with particulate fugitive emissions controlled by wet suppression, consisting of the following pieces of equipment:

(1) Two Syntron Feeders (F1 and F2), with a capacity of 250 tons per hour each.
(2) One conveyor (B), with a capacity of 250 tons per hour.
(3) One conveyor (A1), with a capacity of 250 tons per hour.
(4) One Screen, with a capacity of 250 tons per hour.
(5) One Stacker conveyor (C), with a capacity of 48 tons per hour.
(6) One conveyor (D), with a capacity of 250 tons per hour.
(7) One conveyor (E), with a capacity of 250 tons per hour.
(8) One Screen (SC2), with a capacity of 250 tons per hour.
(9) One conveyor (F), with a capacity of 110 tons per hour.
(10) One conveyor (G), with a capacity of 110 tons per hour.
(11) One conveyor (H), with a capacity of 50 tons per hour.
(12) One horizontal screen (SC3), with a capacity of 50 tons per hour.
(13) One radial stack conveyor (S4), with a capacity of 110 tons per hour.
(14) One radial stack conveyor (S5), with a capacity of 50 tons per hour.
(15) One conveyor (I), with a capacity of 200 tons per hour.
(16) One conveyor (J), with a capacity of 113 tons per hour.
(17) One conveyor (K), with a capacity of 113 tons per hour.
(18) One radial stack conveyor (S2), with a capacity of 113 tons per hour.
(19) One conveyor/stacker CC1, with a capacity of 50 tons per hour.
(20) One conveyor/stacker CC2, with a capacity of 200 tons per hour.
(21) Four additional conveyors constructed in 2004:

(A) One conveyor (T1), with a capacity of 200 tons per hour.
(B) One conveyor (T2), with a capacity of 200 tons per hour.
(C) One conveyor (T3), with a capacity of 48 tons per hour.
(D) One conveyor (A2), with a capacity of 250 tons per hour.

(22) One (1) crusher, with a maximum capacity of 200 tons per hour, approved in 2010 for construction.
(23) Three (3) truck loading bins, approved in 2010 for construction.

(e) One (1) portable crushing and screening operation, constructed in 2007, with a maximum capacity of 600 tons of slag per hour, with particulate fugitive emissions controlled by wet suppression, consisting of:

(1) Two (2) portable crushers each with a maximum capacity of 300 tons per hour.
(2) One (1) portable screen with a maximum capacity of 300 tons per hour, powered by a 70 HP diesel engine.
(3) Nine (9) portable conveyors each with a maximum capacity of 300 tons per hour

(f) One (1) portable barge loading unit for nut coke and slag, consisting of a feed hopper and conveyor/stacker with a maximum capacity of 300 tons per hour, constructed in 2006.

(g) One (1) portable barge loading unit for slag, consisting of a feed hopper, screen, and conveyor/stacker with a maximum capacity of 400 tons per hour, approved in 2010 for construction.

(h) One (1) portable boat loading unit for slag, consisting of a feed hopper and conveyor/stacker with a maximum capacity of 1500 tons per hour, approved in 2010 for construction.

(i) One (1) portable stacking unit for slag, consisting of a feed hopper and conveyor/stacker with a maximum capacity of 250 tons per hour, approved in 2010 for construction.

(j) One (1) portable screen unit for slag and scarfing material, consisting of a screen and conveyor/stacker, with a maximum capacity of 250 tons per hour, approved in 2010 for construction.

(k) One (1) portable screen unit for slag, consisting of a feed hopper and conveyor/stacker with a maximum capacity of 250 tons per hour, permitted for construction in 2010.

(l) Two (2) portable stackers with a maximum capacity of 200 tons per hour each, approved in 2010 for construction.

(m) Two (2) portable diesel fired generators one (1) with a maximum capacity of 205 kw and one (1) with a maximum capacity of 250 kw, approved in 2010 for construction.

(n) One (1) portable diesel fired generator with a maximum capacity of 105 kw, approved in 2010 for construction.

(o) Four (4) portable conveyors, each with a maximum capacity of 450 tons per hour, approved in 2011 for construction.

(p) Stock piles and product storage piles located at Port of Indiana storage yard, Portage.

(q) One (1) portable loader with feeder and conveyor/stacker (2 drop points, each drop point with a maximum capacity of 450 tons/hour, approved in 2011 for construction.

(r) One Portable Plant No. 2, approved in 2011 for construction consisting of:

(1) One (1) grizzly, with a maximum capacity of 500 tons per hour.
(2) One (1) feed hopper, with a maximum capacity of 500 tons per hour.
(3) Three (3) conveyors, each with a maximum capacity of 500 tons per hour.
(4) One (1) feeder, with a maximum capacity of 500 tons per hour.
(5) One (1) screen, with a maximum capacity of 500 tons per hour.

(6) Four (4) screen output conveyors (4 split: 3 discharge and 1 return), with a maximum capacity of 500 tons per hour.
(7) Four (4) stacker/conveyors (4 split: 2 stackers, 1 finishing and 1 spare), with a maximum capacity of 500 tons per hour.
(8) One (1) impactor/crusher, with a maximum capacity of 500 tons per hour.
(9) Three (3) magnets with a maximum capacity of 15 tons per hour.
(10) Two (2) portable diesel fired generator, one with a capacity of 535 HP and one with a capacity of 630 HP.
(11) Two (2) portable diesel fired engines, one with a capacity of 75 HP and one with a capacity of 65 HP.

Insignificant Activities

This stationary source also includes the following insignificant activities which are specifically regulated, as defined in 326 IAC 2-7-1(21):

(a) Degreasing operations that do not exceed 145 gallons per 12 month, except if subject to 326 IAC 20-6. [326 IAC 8-3]

(b) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment. [326 IAC 6-3-2]

(c) Activities with emissions equal to or less than insignificant thresholds [326 IAC 2-7-1(21)]:

(1) 17,000 gallon diesel AST identified as EE001-9011 [326 IAC 8-9];
(2) 11,000 gallon diesel AST identified as EE001-9012 [326 IAC 8-9];
(3) Iron breakup processing identified as EE001-9014.

Enforcement Issue

There are no enforcement actions pending against this source.

Source Status

The table below summarizes the potential to emit of the entire source, prior to the proposed modification, after consideration of all enforceable limits established in the effective permits:

Pollutant	**Emissions** (ton/yr)
PM	>100
PM_{10}	>100
$PM_{2.5}$	>100
SO_2	>100
VOC	>25
CO	>100
NO_X	>100

(a) This existing source is a major stationary source under PSD (326 IAC 2-2), because a regulated pollutant is emitted at a rate of 100 tons per year or more, and it is one (1) of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(gg)(1).

(b) This existing source is a major stationary source under Nonattainment New Source Review, 326 IAC 2-1.1-5, since direct PM2.5 is emitted at a rate of 100 tons per year or more.

(c) The major status of The Levy Company is based upon the major status of ArcelorMittal Burns Harbor, LLC because they are considered one source.

The table below summarizes the potential to emit HAPs for the entire source, prior to the proposed modification, after consideration of all enforceable limits established in the effective permits:

HAPs	**Potential To Emit** (ton/yr)
Total	**>25**

This existing source is a major source of HAPs, as defined in 40 CFR 63.2, because HAP emissions are greater than twenty-five (25) tons per year for a combination of HAPs. Therefore, this source is a major source under Section 112 of the Clean Air Act (CAA).

Actual Emissions

The following table shows the actual emissions from the source. This information reflects the 2009 OAQ emission data.

Pollutants	**Total Actual Emissions (tons/yr)**
PM/PM_{10}	14.0
$PM_{2.5}$	5.0
SO_2	0.0
VOC	0.0
CO	0.0
NO_X	1.0

Description of Proposed Source Modification

The Office of Air Quality (OAQ) has reviewed an operating permit renewal application, submitted by The Levy Company, Inc. on September 23, 2010. Another application was submitted by the source on March 3, 2011 for the following source modification:

(a) Four (4) portable conveyors, each with a maximum capacity of 450 tons per hour, approved in 2011 for construction.

(b) One (1) portable loader with feeder and conveyor/stacker (2 drop points, each drop point with a maximum capacity of 450 tons/hour, approved in 2011 for construction.

The above emission units will be located at the existing portable crushing and screening operation.

(c) One Portable Plant No.2, approved in 2011 for construction consisting of:

(1) One (1) grizzly, with a maximum capacity of 500 tons per hour.

(2) One (1) feed hopper, with a maximum capacity of 500 tons per hour.

(3) Three (3) conveyors, each with a maximum capacity of 500 tons per hour.

(4) One (1) feeder, with a maximum capacity of 500 tons per hour.

(5) One (1) screen, with a maximum capacity of 500 tons per hour.

(6) Four (4) screen output conveyors (4 split: 3 discharge and 1 return), with a maximum capacity of 500 tons per hour.

(7) Four (4) stacker/conveyors (4 split: 2 stackers, 1 finishing and 1 spare), with a maximum capacity of 500 tons per hour.

(8) One (1) impactor/crusher, with a maximum capacity of 500 tons per hour.

(9) Three (3) magnets with a maximum capacity of 15 tons per hour.

(10) Two (2) portable diesel fired generator, one with a capacity of 535 HP and one with a capacity of 630 HP.

(11) Two (2) portable diesel fired engines, one with a capacity of 75 HP and one with a capacity of 65 HP.

Emission Calculations

(a) See Appendix A of this Technical Support Document (TSD) for detailed emission calculations relating to the proposed SSM No. 127-30302-00026.

(b) See Appendix A of this TSD for detailed emission calculations relating to existing emissions units.

Permit Level Determination of Modification – Part 70

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as “the maximum capacity of a stationary source or emission 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, IDEM, or the appropriate local air pollution control agency.”

The following table is used to determine the appropriate permit level under 326 IAC 2-7-10.5. This table reflects the PTE before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

PTE Before Controls of the Modification	
Pollutant	**Potential To Emit** (ton/yr)
PM	200.14
PM_{10}	81.62
$PM_{2.5}$	81.62
SO_2	29.02
VOC	10.02
CO	37.01
NO_X	167.51

(a) This modification is subject to 326 IAC 2-7-10.5(f), Significant Source Modification because it has the potential to emit of at least one regulated pollutant (Particulate Matter (PM), PM10, SO2, and NOx) greater than or equal to twenty-five (25) tons per year.

(b) This Significant Source Modification will be incorporated into the Part 70 Operating Permit under 326 IAC 2-7-12, as a Significant Permit Modification that will be combined with The Levy Company's Part 70 Operating Permit Renewal.

Permit Level Determination of Modification– PSD and Nonattainment NSR

The table below summarizes the potential to emit, reflecting all limits, of the emission units. Any control equipment is considered federally enforceable only after issuance of this Part 70 source modification and permit modification, and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

Limited Potential to Emit of Modification- (tons/year)

	CONTROLLED/LIMITED PTE (TONS/YEAR)						
PROPOSED EMISSION UNITS	**PM**	**PM10**	**PM2.5**	**SO2**	**NOx**	**VOC**	**CO**
D.3 Additional Portable Equipment	1.30	0.50	0.50	---	---	---	---
Portable Plant No. 2	17.39	6.26	6.26	---	---	---	---
Exempt Engine	0.67	0.67	0.67	0.63	9.50	0.76	2.05
**Generators and Engines **	---	---	---	---	---	---	---
TOTAL PTE OF PROPOSED EMISSION UNITS **	**19.4**	**7.4**	**7.4**	**0.6**	**9.5**	**0.8**	**2.1**
PSD and NONATTAINMENT NSR SIGNIFICANCE LEVEL	**25**	**15**	**10**	**40**	**40**	**40**	**100**
PSD and NONATTAINMENT NSR (Yes/No)	**No**	**No**	**No**	**No**	**No**	**No**	**No**

**The proposed new engines and generators and portable plant no. 2 emit PM2.5 greater than 10 tons/year (Nonattainment New Source Review, significant level) and NOx greater than 40 tons/yr (PSD significant level). However, the source will keep their diesel fuel oil usage limit of 124,830 gallons/year. Therefore, there is no additional increase in diesel fuel oil related pollutant emissions

from the new generators and engines. Thus, this source modification is minor for PSD, 326 IAC 2-2 and Nonattainment New Source Review, 326 IAC 2-1.1-5.

There are no related projects that The Levy Company, ArcelorMittal Burns Harbor or its contractors have sought permits for in the past 2 years that can be aggregated with this modification for the purposes of determining major NSR applicability.

(a) This modification to an existing major stationary source is not major because the VOC emissions increase is not emitted at 40 tons per year or greater, PSD significant level. Therefore, the requirements of 326 IAC 2-2 (PSD) are not applicable.

(b) This modification to an existing major stationary source is not major because the emissions increase for PM2.5 is less than 10 tons per year, the Nonattainment New Source Review, significance level. Therefore, pursuant to 326 IAC 2-1.1-5 the Nonattainment New Source Review requirements do not apply.

Potential to Emit After the Source Modification and Issuance of Renewal

PTE of Entire Source After Issuance of Source Modification and Renewal (tons/year)							
Process	**PM**	**PM10**	**PM2.5**	**SO2**	**NOx**	**VOC**	**CO**
EXISTING EMISSION UNITS							
Roadways	55.17	14.86	0.01	---	---	---	---
Pile Operations	0.57	0.27	0.27	---	---	---	---
Pile Wind Erosion	3.65	1.83	0.29	---	---	---	---
Separation Plant	33.39	12.12	12.12	---	---	---	---
Finishing Plant	14.1	5.1	---	---	---	---	---
Section D.3 Portable Equipment	19.68	6.94	6.94	---	---	---	---
Slag Pots Dumping and Handling	155.60	155.60	155.60	---	---	---	---
Existing Portable Generators	2.8	2.8	2.8	2.62	39.86	3.25	8.59
TOTAL PTE OF EXISTING EMISSION UNITS	**284.96**	**199.52**	**178.03**	**2.62**	**39.86**	**3.25**	**8.59**
PROPOSED NEW EMISSION UNITS							
D.3 Additional Portable Equipment	1.3	0.50	0.50	---	---	---	---
Portable Plant No.2	17.39	6.26	6.26	---	---	---	---
Exempt Engine	0.67	0.67	0.67	0.63	9.50	0.76	2.05
*Generators and Engines	---	---	---	---	---	---	---
TOTAL PTE OF NEW EMISSION UNITS	**19.4**	**7.4**	**7.4**	**0.63**	**9.5**	**0.76**	**2.05**
Sourcewide PTE	**304.36**	**206.92**	**185.43**	**3.25**	**49.36**	**4.01**	**10.64**
Title V Major Source Thresholds	NA	100	100	100	100	100	100
PSD and Nonattainment NSR Major Source Thresholds	100	100	100	100	100	100	100

Note: Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant"

(a) This existing stationary source is major for PSD because the emissions of at least one attainment pollutant are greater than one hundred (>100) tons per year, and it is in one of the twenty-eight (28) listed source categories.

(b) This existing source is a major stationary source under Nonattainment New Source Review rules (326 IAC 2-1.1-5) since direct PM2.5 is emitted at a rate of 100 tons per year or more.

(c) The potential to emit (as defined in 326 IAC 2-7-1(29)) of at least one regulated pollutant PM10, is equal to or greater than 100 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7 and will be issued a Part 70 Operating Permit Renewal.

Federal Rule Applicability Determination

The following federal rules are applicable to the source.

New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60):

(a) 326 IAC 12 and 40 CFR Part 60, Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants. This source is not subject to the requirements of this NSPS because this subpart is not applicable to 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 60.671.

(b) 326 IAC 12 and 40 CFR Part 60, Subpart LL – Standards of Performance for Metallic Mineral processing Plants – This source is not subject to this NSPS, Subpart LL because this source does not produce metallic mineral concentrates from ore or it does not mine ore. In addition, the slag crushing and/or screening operations are not performed in a mine or pit.

(c) 40 CFR Part 60, Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines - This rule applies to manufacturers, owners and operators of stationary CI ICE that commence construction (date the engine was ordered) as specified below:

(1) Manufacturers of stationary CI ICE with displacement of less than 30 liters per cylinder where the model year is:

(i) 2007 or later for engines that are not fire pump engines
(ii) The model year listed in Table 3 for fire pump engines

(2) Owners and operators of stationary CI ICE that commence construction after July 11, 2005, where the stationary CI ICE are:

(i) Manufactured after April 1, 2006 and are not fire pump engines, or
(ii) Manufactured as a certified National Fire Protection Association (NFPA) fire pump engine after July 1, 2006

(3) Owners and operators of stationary CI ICE that modify or reconstruct their stationary CI ICE after July 11, 2005.

(4) Provisions not applicable to stationary CI ICE being tested at a stationary CI ICE test cell/stand.

The seven (7) diesel fired generators (535 HP, 630, HP, 290 HP, 310 HP, 396 HP, 66 HP and 65 HP), are not subject to 40 CFR Part 60, Subpart IIII, because they are not stationary internal combustion engines. These engines meet the definition of nonroad engines under 40 CFR 1068.30. These engines may remain nonroad engines and not be subject to 40 CFR Part 60, Subpart IIII provided they continue to meet the following requirements:

(1) The seven (7) diesel fired generators (535 HP, 630, HP, 290 HP, 310 HP, 396 HP, 66 HP and 65 shall remain at a location for a period not to exceed twelve (12) consecutive months.

(2) For the purposes of this condition and pursuant to 40 CFR 1068.30 Nonroad Engine (2)(iii), a location is any single site at a building, structure, facility, or installation.

(d) 40 CFR Part 60, Subpart JJJJ - Standard of Performance for Stationary Spark Ignition Internal Combustion Engine - This rule applies to manufacturers, owners and operators of stationary CI ICE that commence construction (date the engine was ordered) as specified below:

(1) Manufacturers of stationary SI ICE with a maximum engine power less than or equal to 19 kilowatt (KW) (25 horsepower (HP)) that are manufactured on or after July 1, 2008.

(2) Manufacturers of stationary SI ICE with a maximum engine power greater than 19 KW (25 HP) that are gasoline fueled or that are rich burn engines fueled by liquefied petroleum gas (LPG), where the date of manufacture is:

(i) On or after July 1, 2008; or
(ii) On or after January 1, 2009, for emergency engines.

(3) Manufacturers of stationary SI ICE with a maximum engine power greater than 19 KW (25 HP) that are not gasoline fueled and are not rich burn engines fueled by LPG, where the manufacturer participates in the voluntary manufacturer certification program described in this subpart and where the date of manufacture is:

(i) On or after July 1, 2007, for engines with a maximum engine power greater than or equal to 500 HP (except lean burn engines with a maximum engine power greater than or equal to 500 HP and less than 1,350 HP);
(ii) On or after January 1, 2008, for lean burn engines with a maximum engine power greater than or equal to 500 HP and less than 1,350 HP;

(iii) On or after July 1, 2008, for engines with a maximum engine power less than 500 HP; or

(iv) On or after January 1, 2009, for emergency engines.

(4) Owners and operators of stationary SI ICE that commence construction after June 12, 2006, where the stationary SI ICE are manufactured:

(i) On or after July 1, 2007, for engines with a maximum engine power of equal to or more than 500 HP (except lean burn engines with a maximum engine power equal to or more than 500 HP and less than 1,350 HP);
(ii) On or after January 1, 2008, for lean burn engines with a maximum engine power equal to or more than 500 HP and less than 1,350 HP;
(iii) On or after July 1, 2008, for engines with a maximum engine power less than 500 HP; or
(iv) On or after January 1, 2009, for emergency engines with a maximum engine power greater than 19 KW (25 HP).

(5) Owners and operators of stationary SI ICE that commence modification or reconstruction after June 12, 2006.

(6) The provisions of this subpart are not applicable to stationary SI ICE being tested at an engine test cell/stand.

The seven (7) diesel fired generators (535 HP, 630, HP, 290 HP, 310 HP, 396 HP, 66 HP and 65 HP), are not subject to 40 CFR Part 60, Subpart JJJJ, because they are not a stationary spark ignition internal combustion engines. These generators are compression ignition (CI) engines.

(e) 40 CFR Part 60, Subpart Kb—Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) – This rule applies a storage vessel with a capacity greater than or equal to 75 cubic meters (m^3) that is used to store volatile organic liquids (VOL) including Petroleum Liquid Storage Vessels for which construction, reconstruction, or modification is commenced after July 23, 1984.

The two (2) 17,000 gallon diesel storage tanks, identified as EE001-9011 and EE001-9012 are not subject to this NSPS because each tank's capacity is less than 75 cubic meters (19,813 gallons).

NESHAP

(a) 326 IAC 20-82 and 40 CFR 63, Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE). This rule applies to owners and operators of existing, new, or reconstructed stationary RICE at a major or area source of HAPs, excluding stationary RICE being tested at a stationary RICE test cell/stand:

(1) Existing stationary RICE:

(i) For stationary RICE with site rating of more than 500 HP, located at a major source of HAPs, commencing construction or reconstruction before December 19, 2002.

(ii) For stationary RICE with site rating with site rating of less than or equal to 500 HP, located at a major source of HAPs, commencing construction or reconstruction before June 12, 2006.

(iii) For stationary RICE located at an area source of HAPs, commencing construction or reconstruction before June 12, 2006.

(iv) A change in ownership of an existing stationary RICE does not make it new or reconstructed stationary RICE.

(2) New stationary RICE:

(i) A stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions is new if you commenced construction of the stationary RICE on or after December 19, 2002.

(ii) A stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions is new if you commenced construction of the stationary RICE on or after June 12, 2006.

(iii) A stationary RICE located at an area source of HAP emissions is new if you commenced construction of the stationary RICE on or after June 12, 2006.

(3) Reconstructed stationary RICE:

(i) A stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions is reconstructed if you meet the definition of reconstruction in §63.2 and reconstruction is commenced on or after December 19, 2002.

(ii) A stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions is reconstructed if you meet the definition of reconstruction in §63.2 and reconstruction is commenced on or after June 12, 2006.

(iii) A stationary RICE located at an area source of HAP emissions is reconstructed if you meet the definition of reconstruction in §63.2 and reconstruction is commenced on or after June 12, 2006.

Stationary RICE subject to limited requirements:

(1) An affected source which meets either of the following criteria does not have to meet the requirements of this subpart and of subpart A of this part except for the initial notification requirements of §63.6645(f).

(i) The stationary RICE is a new or reconstructed emergency stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions; or

(ii) The stationary RICE is a new or reconstructed limited use stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions.

(2) A new or reconstructed stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions which combusts landfill or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis must meet the initial notification requirements of §63.6645(h) and the requirements of §§63.6625(c), 63.6650(g), and 63.6655(c). These stationary RICE do not have to meet the emission limitations and operating limitations of this subpart.

Stationary RICE not subject to the standards of Subpart ZZZZ, and no initial notification required:

(1) Existing spark ignition 2 stroke lean burn (2SLB) stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions;

(2) Existing spark ignition 4 stroke lean burn (4SLB) stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions;

(3) Existing emergency stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions;

(4) Existing limited use stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions;

(5) Existing stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions that combusts landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis;

(6) Existing residential emergency stationary RICE located at an area source of HAP emissions;

(7) Existing commercial emergency stationary RICE located at an area source of HAP emissions; or

(8) Existing institutional emergency stationary RICE located at an area source of HAP emissions

The seven (7) diesel fired generators (535 HP, 630, HP, 290 HP, 310 HP, 396 HP, 66 HP and 65 HP), are not subject to 40 CFR Part 63, Subpart ZZZZ because they are not stationary RICE. These engines meet the definition of nonroad engines under 40 CFR 1068.30. These engines may remain nonroad engines and not be subject to 40 CFR Part 63, Subpart ZZZZ provided they continue to meet the following requirements:

(1) The seven (7) diesel fired generators (535 HP, 630, HP, 290 HP, 310 HP, 396 HP, 66 HP and 65 shall remain at a location for a period not to exceed twelve (12) consecutive months.

(2) For the purposes of this condition and pursuant to 40 CFR 1068.30 Nonroad Engine (2)(iii), a location is any single site at a building, structure, facility, or installation.

<u>Compliance Assurance Monitoring</u>

Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is applicable to each new or modified pollutant-specific emission unit that meets the following criteria

(a) has a potential to emit before controls equal to or greater than the major source threshold for the pollutant involved;

(2) is subject to an emission limitation or standard for that pollutant; and

(3) uses a control device, as defined in 40 CFR 64.1, to comply with that emission limitation or standard.

No emission unit at the plant is controlled by a control device. Therefore, the requirements of 40 CFR Part 64, CAM are not applicable to any of the emission units at the plant.

State Rule Applicability - Entire Source

(a) 326 IAC 2-2 (Prevention of Significant Deterioration)

SSM No. 127-15319-00026, issued on May 30, 2002-

The Levy Company, Inc. is an existing major PSD and Nonattainment NSR based upon the major status of ArcelorMittal Burns Harbor, LLC, that is why all source modifications issued to The Levy Company, Inc. were limited to less than the PSD and Nonattainment NSR significant levels.

SSM No. 127-15319-00026, issued on May 30, 2002 limited the PM and PM10 emissions from the Finishing Plant in SECTION D.2.1 and Barge Loading in SECTION D.3.1(b) to less than 15 tons/yr for PM and PM10 as follows:

Process	Emission Limit (lb/ton)	
	PM	PM-10
SECTION D.2		
Two Syntron Feeders	0.0001008	0.000048
Each of the ten (10) Conveyors	0.0001008	0.000048
Each of the three (3) Screens	0.0017640	0.000840
Each of the five (5) Stackers	0.0001008	0.000048
SECTION D.3		
Barge Loading	0.0001008	0.000048

These limits as required in the permit are not federally enforceable since it is not possible to quantify each emission unit's PTE without throughput limitations. Therefore, in this permitting action, conditions D.2.1(a) and D.3.1(b) have been revised to include throughput limitations. The revision is as follows:

D.2.1 PSD **and Nonattainment NSR** Minor Limit [326 IAC 2-2] **[326 IAC 2-1-1.5]**

~~(a)~~ In order to avoid the requirements of Prevention of Significant Deterioration, **the throughput to the Finishing Plant (EU001-05) shall be limited to less than 1,752,000 tons per twelve consecutive month period with compliance at the end of each month and the** PM, and PM-10, emission rates from the **following emission units at the** Finishing Plant (EU001-05) ~~emission units~~ shall not exceed the ~~values~~ **limits** indicated below:

Process	Emission Limit (lb/ton)	
	PM	PM-10
Two Syntron Feeders, **A1, A2**	~~0.0001008~~ **0.0003**	~~0.000048~~ **0.00011**
~~Each of the ten (10) Conveyors~~	~~0.0001008~~	~~0.000048~~
Conveyor/stacker, A1	**0.0003**	**0.00011**
Conveyor/stacker, B	**0.0003**	**0.00011**
Conveyor/stacker, C	**0.0003**	**0.00011**

Process	Emission Limit (lb/ton)	
	PM	PM-10
Conveyor/stacker, D	**0.0003**	**0.00011**
Conveyor/stacker, E	**0.0003**	**0.00011**
Conveyor/stacker, F	**0.0003**	**0.00011**
Conveyor/stacker, G	**0.0003**	**0.00011**
Conveyor/stacker, H	**0.0003**	**0.00011**
Conveyor/stacker, I	**0.0003**	**0.00011**
Conveyor/stacker, J	**0.0003**	**0.00011**
~~Each of the three (3)~~ **Two (2)** Screens, **DD, SC2**	~~0.0017640~~ **0.0025**	~~0.000840~~ **0.00087**
Screen SC3	**0.0025**	**0.00087**
~~Each of the five (5)~~ Conveyor/radial Stacker~~s,~~ S2	**0.0003**	**0.00011**
Conveyor/radial Stacker, S4	**0.0003**	**0.00011**
Conveyor/radial Stacker, S5	**0.0003**	**0.00011**
Conveyor/radial Stacker, CC1	**0.0003**	**0.00011**
Conveyor/radial Stacker, CC2	**0.0003**	**0.00011**

Compliance with ~~T~~these limits~~, in conjunction with the PM and PM10 limits from Condition D.3.1(b) will~~ **shall** limit **the PM emission to less than 25 tons/year and PM10** emissions to less than 15 tons per year ~~of PM and PM-10~~ from the Finishing Plant ~~and the barge loading unit.~~ Therefore, 326 IAC 2-2 (Prevention of Significant Deterioration) **are rendered not applicable** ~~do not apply~~ to this modification.

Significant Source Modification 127-28706-00026, issued on September 7, 2010

~~D.2.1 PSD Minor Limit [326 IAC 2-2]~~

~~(b) Pursuant to Significant Permit Modification No. 127-28733-00026, the Permittee shall limit the following units, in conjunction with the emissions units associated with Conditions D.1.1 and D.3.1(c), to less than 20 tons per year of PM, to less than 10 tons per year of PM10, and to less than 5 tons per year of PM2.5.~~

~~(1) EU001-05's one (1) crusher~~

~~(2) EU001-05's three (3) truck loading bins~~

(b) **In order to avoid the requirements of Prevention of Significant Deterioration and Nonattainment New Source Review the PM, PM10 and PM2.5 emission for the following emission units at the Finishing Plant (EU001-05) shall not exceed the limits indicated below:**

Process	**Emission Limit (lb/ton)**		
	PM	**PM-10**	**PM2.5**
Crusher	**0.00054**	**0.00024**	**0.00024**
Truck Loading Bin	**0.0003**	**0.00011**	**0.00011**
Truck Loading Bin, CAII	**0.0003**	**0.00011**	**0.00011**
Truck Loading Bin FA20	**0.0003**	**0.00011**	**0.00011**

Compliance with these limits, in conjunction with the limits in Conditions D.1.1, throughput limit in D.2.1, D.3.1(b) and (c), shall limit the PM emission to less than 25 tons/year, PM10 emissions to less than 15 tons per year and PM2.5 to less than 10 tons per year. Therefore, 326 IAC 2-2 (Prevention of Significant Deterioration) and Nonattainment NSR (326 IAC 2-1-1.5) are rendered not applicable to this modification.

SSM No. 127-24651-00026, issued on September 19, 2007

This source modification permitted the construction of the Portable Crushing and Screening plant. This source modification limited the slag throughput to the Portable Crushing and Screening plant to less than 5,256,000 tons/year to keep the PM emissions below 25 tons/year, PM10 emissions below 15 tons/year, and PM2.5 emissions below 10 tons/year to avoid the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-1.1-5 (Nonattainment NSR).

D.3.1 PSD Nonattainment NSR Minor Limit [326 IAC 2-2] [326 IAC 2-1.1-5]

(a) In order to avoid the requirements of **326 IAC 2-2 (**Prevention of Significant Deterioration) and **326 IAC 2-1.1-5 (**Nonattainment New Source Review**)), the slag throughput to the Portable Crushing and Screening Plant shall be limited to less than 2,628,000 tons per twelve consecutive month period with compliance at the end of each month and the PM, PM10 and PM2.5 from the following emission units at the Portable Crushing and Screening Plant shall not exceed the limits in the table below**: ~~Permittee shall limit the throughput of slag to the portable crushing and screening operation to less than 5,256,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month~~:

Process	Emission Limit (lb/ton)		
	PM	PM-10	PM2.5
Two Crushers	**0.00054**	**0.00024**	**0.00024**
Screen	**0.0025**	**0.00087**	**0.00087**
Nine Conveyors	**0.0003**	**0.00011**	**0.00011**

Compliance with this condition **shall** limit ~~will ensure that~~ the PM emissions from the portable crushing and screening operation ~~are~~ **to** less than twenty-five (25) tons/yr , ~~and~~ PM-10 emissions ~~from the portable crushing and screening operation are~~ **to** less than fifteen (15) tons/yr **and PM2.5 to less than 10 tons/year.** Therefore,~~-~~the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-1.1-5 (Nonattainment NSR) are rendered not applicable **to this modification**.

SSM No. 127-28706-00026, issued on September 7, 2010 and SPM No. 127-28733-00026, issued on September 24, 2010

This SPM limited the following emission units in SECTION D.1, SECTION D.2 and SECTION D.3 to keep the PM emission below 25 tons/yr, PM10 below 15 tons/year and PM2.5 below 10 tons/yr.

Section D.1

(1) EU001-02's two (2) scrap loading bins;

Section D.2

(1) EU001-05's one (1) crusher, EU001-05's three (3) truck loading bins;

Section D.3

(1) One (1) portable barge loading unit for slag, consisting of a feed hopper, screen, and conveyor/stacker.

(2) One (1) portable boat loading unit for slag, consisting of a feed hopper and conveyor/stacker.

(3) One (1) portable stacking unit for slag, consisting of a feed hopper and conveyor/stacker.

(4) One (1) portable screen unit for slag and scarfing material, consisting of a screen and conveyor/stacker.

(5) One (1) portable screen unit for slag, consisting of a feed hopper and conveyor/stacker.

(6) Two (2) portable stackers.

(7) Three (3) diesel fuel portable generators.

The limitations are as follows:

D.1.1 PSD and Nonattainment NSR Minor Limit [326 IAC 2-2] [326 IAC 2-1.1-5]

~~Pursuant to Significant Permit Modification No. 127-28733-00026,~~ **In order to avoid the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) and 326 IAC 2-1.1-5 (Nonattainment New Source Review), the total throughput to the Scrap Loading Bins (EU001 and EU02) shall be limited to less than 201,480 tons per twelve consecutive month period with compliance at the end of each month and their PM, PM10 and PM2.5 shall not exceed the limits in the table below**: ~~the Permittee shall limit the following units, in conjunction with the emissions units associated with Conditions D.2.1(b) and D.3.1(c), to less than twenty (20) tons per year of PM, to less than ten (10) tons per year of PM10, and to less than five (5) tons per year of PM2.5.~~

Process	Emission Limit (lb/ton)		
	PM	PM-10	PM2.5
Scrap Loading Bins, EU001 and EU02	**0.0003**	**0.00011**	**0.00011**

~~(a) EU001-02's two (2) scrap loading bins~~

Compliance with these limits, in **conjunction with the limits in Condition D.2.1(b) and Condition D.3.1(c)** ~~addition to the limits from the portable generators, will~~ **shall** limit the PM emissions to less than twenty-five (25) tons per year, the PM10 emissions to less than fifteen (15) tons per year, and the PM2.5 emissions to less than ten (10) tons per year. Therefore, the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-1.1-5 (Nonattainment NSR) ~~do not apply~~ **are rendered not applicable** to this modification.

The barge loading of nut coke and slag operation was permitted in Administrative Amendment No. 127-23652-00026 and was originally included in Section D.2. In SSM 127-28706-00026, this barge loading unit was moved to Section D.3 Although its exempt status was based upon 832 hours per year of operation.or 2 barges /week, it would still be an exempt unit based upon 8760 hours/year and its maximum capacity. However, it was limited along with the other emission units permitted in SSM 127-28706-00026, issued on September 7, 2010 to avoid PSD and major Nonattainment NSR review:

~~D.3.1 PSD and Nonattainment NSR Minor Limit [326 IAC 2-2] [326 IAC 2-1.1-5]~~

~~***~~

~~(b) Pursuant to Significant Source Modification 127-15319-00026, issued May 30, 2002, Minor Source Modification 127-19102-00026, issued July 23, 2004, and 326 IAC 2-2 (Prevention of Significant Deterioration), the PM and PM-10 emission rates from the barge loading unit shall not exceed the values **I** indicated below:~~

~~Process~~	~~Emission Limit (lb/ton)~~	
	~~PM~~	~~PM-10~~
~~Barge Loading~~	~~0.0001008~~	~~0.000048~~

~~Compliance with these limits, in conjunction with the PM and PM10 limits from Condition D.2.1(a) will limit PM- and PM10 emissions to less than fifteen (15) tons per year from the Finishing Plant (EU001-05) and the barge loading unit. Therefore, the requirements of 326 IAC 2-2 (PSD) do not apply.~~

D.3.1 PSD Nonattainment NSR Minor Limit [326 IAC 2-2] [326 IAC 2-1.1-5]

***

(~~c~~ **b**) ~~Pursuant to Significant Permit Modification No. 127-28733-00026~~**the In order to avoid the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) and 326 IAC 2-1.1-5 (Nonattainment New Source Review), the PM, PM10 and PM2.5 from the following emission units at the Portable Crushing and Screening Plant shall not exceed the limits in the table below:** ~~the Permittee shall limit the following units, in conjunction with the emissions units associated with Conditions D.1.1 and D.2.1(b), to less than 20 tons per year of PM, to less than 10 tons per year of PM10, and to less than 5 tons per year of PM2.5.~~

~~(1) One (1) portable barge loading unit for slag, consisting of a feed hopper, screen, and conveyor/stacker with a maximum capacity of 400 tons per hour.~~

~~(2) One (1) portable boat loading unit for slag, consisting of a feed hopper and conveyor/stacker with a maximum capacity of 1500 tons per hour.~~

~~(3) One (1) portable stacking unit for slag, consisting of a feed hopper and conveyor/stacker with a maximum capacity of 250 tons per hour.~~

~~(4) One (1) portable screen unit for slag and scarfing material, consisting of a screen and conveyor/stacker, with a maximum capacity of 250 tons per hour.~~

~~(5) One (1) portable screen unit for slag, consisting of a feed hopper and conveyor/stacker with a maximum capacity of 250 tons per hour.~~

~~(5) Two (2) portable stackers with a maximum capacity of 200 tons per hour each.~~

Process	Emission Limit (lb/ton)		
	PM	PM-10	PM2.5
Portable barge loading unit for slag (feeder/conveyor, stacker & screen)	**0.0003 feeder/conveyor, stacker & screen**	**0.00011 feeder/conveyor, stacker & screen**	**0.00011 feeder/conveyor, stacker & screen**
Portable barge loading unit for nut coke and slag (feeder/conveyor & stacker)	**0.0003 feeder/conveyor & stacker**	**0.00011 feeder/conveyor & stacker**	**0.00011 feeder/conveyor & stacker**
Portable boat loader (feeder/conveyor, & stacker)	**0.0003 feeder/conveyor & stacker**	**0.00011 feeder/conveyor & stacker**	**0.00011 feeder/conveyor & stacker**
Portable stacker (feeder/conveyor & stacker	**0.0003 feeder/conveyor & stacker**	**0.00011 feeder/conveyor & stacker**	**00.00011 feeder/conveyor & stacker**
Screen (screen & stacker/conveyor	**0.0025 screen** **0.0003 stacker/conveyor**	**0.00087 screen** **0.00011 stacker/conveyor**	**0.00087 screen** **0.00011 stacker/conveyor**
Stacker (Conveyor/stacker)	**0.0003**	**0.00011**	**0.00011**

Compliance with these limits, in addition to the limits from the portable generators **in Conditions D.1.1, D.2.1(b), throughput limit in D.3.1(a) and D.3.1(c),** ~~will~~ **shall** limit the PM emissions to less than 25 tons per year, the PM10 emissions to less than 15 tons per year, and the PM2.5 emissions to less than 10 tons per year. Therefore, the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-1.1-5 (Nonattainment NSR) ~~do not apply~~ **are rendered not applicable** to this modification.

(~~d~~ **c**) **In order to avoid the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) and 326 IAC 2-1.1-5 (Nonattainment New Source Review)** ~~Pursuant to IAC 2-2 (PSD Minor Limit) and 326 IAC 2-1.1-5 (Nonattainment NSR),~~ the Permittee shall limit the throughput of diesel fuel to the portable **seven (7)** generators **and engines** to less than a total of 124,830 gallons per twelve (12) consecutive month period with compliance determined at the end of each month. **The NOx emissions from the portable seven (7) generators and engines shall not exceed 0.639 pound/gallon of diesel fuel used.**

Compliance with **the fuel usage and NOx emission rate** limit**s** ~~will~~ **shall** limit the NOx emissions from the portable generators **and engines** to less than 40 tons per year**.** Therefore, the requirements of 326 IAC 2-2 (PSD) are rendered not applicable to this modification ~~and the PM, PM10, and PM2.5 emissions to less than 5 tons per year. Compliance with these limits, in addition to the limits from D.1.1, D.2.1(b), and D.3.1(c), will limit the PM emissions to less than 25 tons per year, the PM10 emissions to less than 15 tons per year, and the PM2.5 emissions to less than 10 tons per year for this modification. Therefore, the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-1.1-5 (Nonattainment NSR) do not apply to this modification.~~

Compliance with this condition in conjunction with Conditions D.1.1, D.2.1(b), throughput limit in D.3.1(a) and D.3.1(b) shall limit the PM emissions to less than 25 tons/year, PM10 emissions to less than 15 tons/year and PM2.5 to less than 10

tons/year. Therefore, the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-1.1-5 (Nonattainment NSR) are rendered not applicable to this modification.

Proposed SSM No. 127-30302-00026 –

D.3.1 PSD and Nonattainment NSR Minor Limit [326 IAC 2-2] [326 IAC 2-1.1-5]

(d) In order to avoid the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) and 326 IAC 2-1.1-5 (Nonattainment New Source Review), the throughput to the Portable Plant No. 2 shall be limited to less than 4,380,000 tons per twelve consecutive month period with compliance at the end of each month and the PM, PM10 and PM2.5 emissions from the following emission units at the Portable Plant No.2 shall not exceed the limits indicated below:

Process	Emission Limit (lb/ton)		
	PM	PM-10	PM2.5
Grizzly	0.0003	0.00011	0.00011
Feed Hopper	0.0003	0.00011	0.00011
Conveyor No.3	0.0003	0.00011	0.00011
Feeder	0.0003	0.00011	0.00011
Conveyor No.5	0.0003	0.00011	0.00011
Screen	0.0025	0.00087	0.00087
Screen output conveyors	0.0025	0.00087	0.00087
Stacker/conveyors	0.0003	0.00011	0.00011
Impactor (crusher)	0.00054	0.00024	0.00024
Magnets	0.0003	0.00011	0.00011
4 Conveyors	0.0003	0.00011	0.00011
Conveyor/Stacker (2 drop points)	0.0003	0.00011	0.00011

Compliance with these limits, in conjunction with the limits in Condition D.3.1(c) shall limit the PM emissions to less than twenty-five (25) tons per year, the PM10 emissions to less than fifteen (15) tons per year, and the PM2.5 emissions to less than ten (10) tons per year. Therefore, the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-1.1-5 (Nonattainment NSR) are rendered not applicable to this modification.

(b) 326 IAC 2-6 (Emission Reporting)
This source is subject to 326 IAC 2-6 (Emission Reporting) because it is required to have an operating permit under 326 IAC 2-7, Part 70 program. Pursuant to this rule, the Permittee shall submit an emission statement certified pursuant to the requirements of 326 IAC 2-6. In accordance with the compliance schedule specified in 326 IAC 2-6-3, an emission statement must be submitted annually by July 1 of each year. . The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:

(1) Indicate estimated actual emissions of all pollutants listed in 326 IAC 2-6-4(a);

(2) Indicate estimated actual emissions of regulated pollutants as defined by 326 IAC 2-7-1 (32) ("Regulated pollutant, which is used only for purposes of Section 19 of this rule") from the source, for purpose of fee assessment.

The statement must be submitted to:

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

The emission statement does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

The emission statement required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

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

(d) 326 IAC 6-3-2 (Particulate emission limitations, work practices, and control technologies)
(1) The particulate emissions from the following emission units shall be limited as follows **at the maximum process weight rates**;

Facility/Process	Process Weight Rate (ton/hour)	Particulate Emissions Limitation (pound/hour)
Separation Plant		
conveyor/stacker no. 104	1,260	80.6
conveyor/stacker no. 139	210	59.0
conveyor/stacker no. 107	550	70.1
conveyor/stacker no. 142	250	60.9
conveyor/stacker no. 143	225	59.8
conveyor/stacker no. 145	225	59.8
conveyor/stacker no. 108	300	63.0
conveyor/stacker no. 140	550	70.1
conveyor/stacker no. 109	550	70.1
conveyor/stacker no. 110	550	70.1
conveyor/stacker no. 107A	550	70.1
conveyor/stacker no. 112	410	66.6
conveyor/stacker no. 114	500	68.9
conveyor/stacker no. 120F	10	19.2
conveyor/stacker no. 120	110	52.2

Facility/Process	Process Weight Rate (ton/hour)	Particulate Emissions Limitation (pound/hour)
conveyor/stacker no. 120B	120	53.1
conveyor/stacker no. 120 E	10	19.2
conveyor/stacker no. L-7	35	41.3
crusher (primary) no. 111	700	73.0
crusher (secondary) no. 141	25	35.4
crusher (secondary) no. 144	225	59.8
belt feeder (conveyor) no. 102	1000	77.6
grizzly/feeder	350	64.8
feeder no. 101	1150	79.4
loading bin	1150	79.4
loading bin	11.5	21.0
loading bin (scrap), EU001	11.5	21.0
loading bin (scrap), EU02	11.5	21.0
magnet (drum) no. 103	11.5	21.0
magnet (pendulum) no. 103A	11.5	21.0
magnet (overband)	11.5	21.0
magnet (pulley) 42"	11.5	21.0
magnet (pulley) 30"	11.5	21.0
magnet (pulley) 24"	11.5	21.0
magnet (pulley) 30"	11.5	21.0
screen no. 105	630	71.8
screen no. 106	630	71.8
screen no. 120 A	110	52.2
screen no. 120C	110	52.2
Finishing Plant		
Feeder, A1	350	64.8
Feeder, A2	350	64.8
Conveyor/stacker, A1	250	60.9
Conveyor/stacker, B	250	60.9
Conveyor/stacker, A2	250	60.9
Conveyor/stacker, T3	48	44.2
Conveyor/stacker, C	48	44.2
Conveyor/stacker, T1	200	58.5
Conveyor/stacker, T2	200	58.5
Conveyor/stacker, D	250	60.9
Conveyor/stacker, E	250	60.9
Conveyor/stacker, J	113	52.5
Conveyor/stacker K	113	52.5
Conveyor/radial stacker, S2	113	52.5
Conveyor/stacker, I	200	58.5
Conveyor/radial stacker, #CC2	200	58.5
Conveyor/radial stacker, S5	50	44.6
Conveyor/stacker, H	50	44.6

Facility/Process	Process Weight Rate (ton/hour)	Particulate Emissions Limitation (pound/hour)
Conveyor/radial stacker, S4	110	52.2
Conveyor/stacker, F	110	52.2
Conveyor/stacker, G	110	52.2
Conveyor/stacker, T1	200	58.5
Conveyor/stacker, T2	200	58.5
conveyor/stacker no.CC1	50	44.6
Crusher	200	58.5
Screen, DD	250	60.9
Screen, SC2	250	60.9
Screen, SC3	50	44.6
Truck loading bin	105	51.8
Truck loading bin, CA II	105	51.8
Truck loading bin, FA20	105	51.8
Portable Equipment		
Barge Loader: Feeder/Conveyor	300	63.0
Stacker	300	63.0
Barge Loader: Feeder/Conveyor	400	66.3
Screen	400	66.3
Stacker	400	66.3
Boat Loader: Feeder/Conveyor	1,500	82.9
Stacker	1,500	82.9
Crushing and Screening Operations:	300	63.0
Crusher	300	63.0
Crusher	300	63.0
Screen	300	63.0
9 conveyors	300 total	63.0
Stacker: Feeder/Conveyor	250	60.9
Stacker	250	60.9
Screen Unit: Screen	250	60.9
Stacker/Conveyor	250	60.9
Screen Unit: Feeder/Conveyor	250	60.9
Screen	250	60.9
Conveyor/Stacker	250	60.9
Stacker: Conveyor/Stacker	200	58.5
Stacker: Conveyor/Stacker	200	58.5
Slag Pots Dumping and Handling	187	57.8
New Equipment		
Additional Portable Equipment		

Facility/Process	Process Weight Rate (ton/hour)	Particulate Emissions Limitation (pound/hour)
4 Portable Conveyors	450 each	67.7 each
Portable Loader: Feeder	450	67.7
Conveyor Stacker	450	67.7
Portable Plant No.2		
Grizzly	500	68.9
Feed Hopper	500	68.9
Conveyor	500	68.9
Feeder	500	68.9
Conveyor	500	68.9
Conveyor	500	68.9
Screen	500	68.9
Stacker/Conveyor	500	68.9
Impactor (Crusher)	500	68.9

The pound per hour limitations above were calculated using the following equation:

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

$E = 4.10\ P^{0.67}$ where E = rate of emission in pounds per hour and
P = process weight rate in tons per hour

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

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

(2) 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.

(e) 326 IAC 6-4 (Fugitive Dust Emissions)
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).

(f) 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations)
Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the Fugitive Dust Control Plan submitted on May 30, 2007.

(g) 326 IAC 8-9 (Volatile Organic Liquid Storage Vessels)
VOL Storage Tanks, identified as EE001-9011 and EE001-9012 each with a capacity of less than thirty-nine thousand (39,000) gallons are subject to the reporting and record

keeping provisions of 326 IAC 8-9-6(a) and (b) and are exempt from all other provisions of this rule. The owner or operator of each vessel shall keep all records required by this section for the life of the vessels. The owner or operator shall maintain a record and submit to the department a report containing the following information for each vessel:

(1) The vessel identification number.
(2) The vessel dimensions.
(3) The vessel capacity.

(h) 326 IAC 8-3 (Cold Cleaner Degreaser Operation)
Pursuant to 326 IAC 8-3-8 (Material requirements for cold cleaning degreasers), the users, providers, and manufacturers of solvents for use in cold cleaning degreasers in Clark, Floyd, Lake, and Porter Counties, except for solvents intended to be used to clean electronic components shall do the following:

(1) On and after May 1, 2001, no person shall Operate a cold cleaning degreaser with a solvent vapor pressure that exceeds one (1) millimeter of mercury (nineteen-thousandths (0.019) pound per square inch) measured at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).

(2) On and after November 1, 1999, all persons subject to the requirements of 326 IAC 8-3-8(c)(1)(B) and (c)(2)(B) shall maintain each of the following records for each purchase:

(A) The name and address of the solvent supplier.

(B) The date of purchase.

(C) The type of solvent.

(D) The volume of each unit of solvent.

(E) The total volume of the solvent.

(F) The true vapor pressure of the solvent measured in millimeters of mercury at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).

(3) All records required by 326 IAC 8-3-8 (d) shall be retained on-site for the most recent three (3) year period and shall be reasonably accessible for an additional two (2) year period.

Compliance Determination and Monitoring Requirements

Permits issued under 326 IAC 2-7 are required to ensure that sources can demonstrate compliance with all applicable state and federal rules on a continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a 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 Determination Requirements are included in the permit. The Compliance Determination Requirements in Section D of the permit are those conditions that are found directly within state and federal rules and the violation of which serves as grounds for enforcement action.

If the Compliance Determination Requirements are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also in Section

D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

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

The Slag Pot Dumping and Handling, Separation Plant, Finishing Plant, Crushing and Screening Operations have the following Compliance Determination and Monitoring requirements:

Wet Suppression

(a) The Permittee shall use wet suppression to control emissions of PM, PM-10 and PM2.5 from the conveyors, screens, feeders, hoppers, crushers, magnetic head pulleys, and stackers. The suppressant shall be applied in a manner and at a frequency sufficient to ensure compliance with the limits in 326 IAC 2-2 (PSD), 326 IAC 2-1.1-5 (Nonattainment NSR) and 326 IAC 6-3 (Particulate Emissions for Manufacturing Processes). 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 0.92 percent.

Visible Emissions Notations

(a) Visible emission notations of all process emission points shall be performed once per day 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) If abnormal emissions are observed, the Permittee shall take reasonable response steps. Section C- Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

These compliance determination and monitoring conditions are necessary because the source must meet the limits under 326 IAC 2-2 (PSD), 326 IAC 2-1.1-5 (Nonattainment NSR), 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes) and 326 IAC 6-4 (Fugitive Dust Emissions).

Recommendation

The staff recommends to the Commissioner that the Significant Source Modification and Part 70 Operating Permit Renewal 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.

The Part 70 Operating Permit Renewal application for the purposes of this review was received on September 23, 2010. The Significant Source Modification application was received on March 3, 2011. Additional information was received on February 11, 2011, March 12, 18 and 29, 2011.

Conclusion

The operation of this stationary blast furnace and basic oxygen furnace slag finishing operation and separation plant and construction of portable plant no. 2 and other equipment shall be subject to the conditions of the attached Significant Source Modification No. 089-30302-00026 and Part 70 Operating Permit Renewal No. 089-29719-00026.

IDEM Contact

(a) Questions regarding this proposed permit can be directed to Aida DeGuzman 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) 233-4972 or toll free at 1-800-451-6027 extension (3-4972).

(b) A copy of the findings is available on the Internet at: http://www.in.gov/ai/appfiles/idem-caats/

Company Name: The Levy Company - Burns Harbor Facility
a contractor of ArcelorMittal Burns Harbor, LLC
Address, City IN Zip: US Highway 12, Burns Harbor, IN 46304
SSM No.: 127-30302
Part 70 Operating Permit Renewal No.: 127-29719
Plt ID: 127-00026
Reviewer: Aida De Guzman
ng Permit Renewal Application Received: Sept. 23, 2010
Date SSM Application Received: March 3, 2011

UNCONTROLLED PTE (TONS/YEAR)							
Process/Equip	**PM**	**PM10**	**PM2.5**	**SO2**	**NOx**	**VOC**	**CO**
EXISTING EMISSION UNITS							
Roadways	371.82	99.10	0.08	---	---	---	---
Pile Operations	3.78	1.79	0.56	---	---	---	---
Pile Wind Erosion	36.50	18.30	2.70	---	---	---	---
Separation Plant	333.90	121.20	121.20	---	---	---	---
Finishing Plant**	131.50	47.50	---	---	---	---	---
Section D.3 Portable Equipment	260.60	94.19	94.19	---	---	---	---
Slag Pots**	155.60	155.60	---	---	---	---	---
Existing Portable Generators	7.70	7.70	7.70	7.20	109.60	8.90	23.60
TOTAL PTE OF EXISTING EMISSION UNITS	**1301.40**	**545.38**	**226.43**	**7.20**	**109.60**	**8.90**	**23.60**
PROPOSED NEW EMISSION UNITS							
D.3 Additional Portable Equipment	23.70	13.00	13.00	---	---	---	---
Portable Plant No.2	167.32	60.30	60.30	---	---	---	---
Exempt Engine	0.67	0.67	0.67	0.63	9.50	0.76	2.05
Generators and Engines	8.5	7.7	7.7	28.4	158.0	9.3	35.0
TOTAL PTE OF NEW EMISSION UNITS	**200.14**	**81.62**	**81.62**	**29.02**	**167.51**	**10.02**	**37.01**
TOTAL UNCONTROLLED PTE	**1501.5**	**627.0**	**308.1**	**36.2**	**277.1**	**18.9**	**60.6**

CONTROLLED PTE (TONS/YEAR)							
Process/Equip	**PM**	**PM10**	**PM2.5**	**SO2**	**NOx**	**VOC**	**CO**
EXISTING EMISSION UNITS							
Roadways	55.17	14.86	0.01	---	---	---	---
Pile Operations	0.57	0.27	0.27	---	---	---	---
Pile Wind Erosion	3.65	1.83	0.29	---	---	---	---
Separation Plant	33.39	12.10	12.10	---	---	---	---
Finishing Plant**	13.20	4.70	---	---	---	---	---
Section D.3 Portable Equipment	26.06	9.42	9.42	---	---	---	---
Slag Pots	155.60	155.60	155.60				
Existing Portable Generators	7.70	7.70	7.70	7.20	109.60	8.90	29.14
TOTAL PTE OF EXISTING EMISSION UNITS	**295.34**	**206.48**	**185.39**	**7.20**	**109.60**	**8.90**	**29.14**
PROPOSED NEW EMISSION UNITS							
D.3 Additional Portable Equipment	2.40	1.30	1.30	---	---	---	---
Portable Plant No.2	16.75	6.03	6.03	---	---	---	---
Exempt Engine	0.67	0.67	0.67	0.63	9.50	0.76	2.05
Generators and Engines	8.5	7.7	7.7	28.4	158.0	9.3	35.0
TOTAL PTE OF NEW EMISSION UNITS	**28.27**	**15.65**	**15.65**	**29.02**	**167.51**	**10.02**	**37.01**
PSD and Nonattainment NSR Significant Levels (NEW E. UNITS)	**25.0**	**15.0**	**10.0**	**40.0**	**40.0**	**40.0**	**100.0**
TOTAL CONTROLLED PTE	**323.61**	**222.13**	**201.04**	**36.22**	**277.11**	**18.92**	**66.15**

** Finishing Plant was constructed in 2003 and modified in 2004. PM2.5 was not a regulated pollutant in 2002 and 2004.
Slag pots operation has been constructed in 1969

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a contractor of ArcelorMittal Burns Harbor, LLC
Address, City IN Zip: US Highway 12, Burns Harbor, IN 46304
SSM No.: 127-30302
Part 70 Operating Permit Renewal No.: 127-29719
Plt ID: 127-00026
Reviewer: Aida De Guzman
ng Permit Renewal Application Received: Sept. 23, 2010
Date SSM Application Received: March 3, 2011

	CONTROLLED/LIMITED PTE (TONS/YEAR)						
Process/Equip	**PM**	**PM10**	**PM2.5**	**SO2**	**NOx**	**VOC**	**CO**
EXISTING EMISSION UNITS							
Roadways	55.17	14.86	0.01	---	---	---	---
Pile Operations	0.57	0.27	0.27	---	---	---	---
Pile Wind Erosion	3.65	1.83	0.29	---	---	---	---
Separation Plant	33.39	12.12	12.12	---	---	---	---
Finishing Plant	14.10	5.10	---	---	---	---	---
Section D.3 Portable Equipment	19.68	6.94	6.94	---	---	---	---
Slag Pots	155.60	155.60	155.60				
Existing Portable Generators	2.80	2.80	2.80	2.62	39.86	3.25	8.59
TOTAL PTE OF EXISTING EMISSION UNITS	**284.96**	**199.52**	**178.03**	**2.62**	**39.86**	**3.25**	**8.59**

* Diesel fuel oil usage for all the existing engines and generators have been limited to a total of 124,830 gallons/year to limit the NOx to 39.86 tons/year.

** The proposed new engines and generators and portable plant emit PM2.5 greater than 10 tons/yr (Nonattainment NSR significant level), PM greater than 25 tons/yr, and NOx greater than 40 tons/yr (PSD significant levels) However, the source will keep the diesel fuel oil limit of 124,830 gallons/year to keep the source modification SSM 127-30302-00026 minor for PSD and Nonattainment NSR.

	CONTROLLED/LIMITED PTE (TONS/YEAR)						
PROPOSED EMISSION UNITS	**PM**	**PM10**	**PM2.5**	**SO2**	**NOx**	**VOC**	**CO**
D.3 Additional Portable Equipment	1.30	0.50	0.50	---	---	---	---
Portable Plant No. 2	17.39	6.26	6.26	---	---	---	---
Exempt Engine	0.67	0.67	0.67	0.63	9.50	0.76	2.05
Generators and Engines **	---	---	---	---	---	---	---
TOTAL PTE OF PROPOSED EMISSION UNITS	**19.4**	**7.4**	**7.4**	**0.6**	**9.5**	**0.8**	**2.1**
PSD and NONATTAINMENT NSR SIGNIFICANCE LEVELS	**25**	**15**	**10**	**40**	**40**	**40**	**100**
PSD and NONATTAINMENT NSR (Yes/N	**No**	**No**	**No**	**No**	**No**	**No**	**No**

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Reviewer: Aida De Guzman
te Part 70 Operating Permit Renewal Application Received: Sept. 23, 2010
Date SSM Application Received: March 3, 2011

Potential to Emit - Section D.1: Separation Plant (constructed in 1969 and modified in 2010 under SSM 127-28733)

1150 tons per hour capacity	10,074,000 tons per year
1% mag% of iron pulled out through each FE magnet	

NOTE:
ArcelorMittal BFs are limited to 5,460,000 tons iron production which produces approx 1,600,000 tons of BF slag per year.
ArcelorMittal BOF vessels have a capacity of 4,380,000 tons steel which produces approx 876,000 tons of BOF slag per year.
100% of raw feed stock for Levy comes from ArcelorMittal which will not exceed their total production capacity estimate of 2,476,000 tons slag.

Separation Plant	Capacity	Throughput	Emission Factors (lb/ton)			Uncontrolled Emissions (ton/yr)			Control	Controlled Emissions (ton/yr)		
Equipment	(tph)	(tons/yr)	PM	PM_{10}	$PM_{2.5}$	PM	PM_{10}	$PM_{2.5}$	Efficiency	PM	PM_{10}	$PM_{2.5}$
conveyor/stacker no. 104	1,260	11,037,600	0.003	0.0011	0.0011	16.5564	6.0707	6.0707	90%	1.6556	0.6071	0.6071
conveyor/stacker no. 139	210	1,839,600	0.003	0.0011	0.0011	2.7594	1.0118	1.0118	90%	0.2759	0.1012	0.1012
conveyor/stacker no. 107	550	4,818,000	0.003	0.0011	0.0011	7.2270	2.6499	2.6499	90%	0.7227	0.2650	0.2650
conveyor/stacker no. 142	250	2,190,000	0.003	0.0011	0.0011	3.2850	1.2045	1.2045	90%	0.3285	0.1205	0.1205
conveyor/stacker no. 143	225	1,971,000	0.003	0.0011	0.0011	2.9565	1.0841	1.0841	90%	0.2957	0.1084	0.1084
conveyor/stacker no. 145	225	1,971,000	0.003	0.0011	0.0011	2.9565	1.0841	1.0841	90%	0.2957	0.1084	0.1084
conveyor/stacker no. 108	300	2,628,000	0.003	0.0011	0.0011	3.9420	1.4454	1.4454	90%	0.3942	0.1445	0.1445
conveyor/stacker no. 140	550	4,818,000	0.003	0.0011	0.0011	7.2270	2.6499	2.6499	90%	0.7227	0.2650	0.2650
conveyor/stacker no. 109	550	4,818,000	0.003	0.0011	0.0011	7.2270	2.6499	2.6499	90%	0.7227	0.2650	0.2650
conveyor/stacker no. 110	550	4,818,000	0.003	0.0011	0.0011	7.2270	2.6499	2.6499	90%	0.7227	0.2650	0.2650
conveyor/stacker no. 107A	550	4,818,000	0.003	0.0011	0.0011	7.2270	2.6499	2.6499	90%	0.7227	0.2650	0.2650
conveyor/stacker no. 112	410	3,591,600	0.003	0.0011	0.0011	5.3874	1.9754	1.9754	90%	0.5387	0.1975	0.1975
conveyor/stacker no. 114	500	4,380,000	0.003	0.0011	0.0011	6.5700	2.4090	2.4090	90%	0.6570	0.2409	0.2409
conveyor/stacker no. 120F	10	87,600	0.003	0.0011	0.0011	0.1314	0.0482	0.0482	90%	0.0131	0.0048	0.0048
conveyor/stacker no. 120	110	963,600	0.003	0.0011	0.0011	1.4454	0.5300	0.5300	90%	0.1445	0.0530	0.0530
conveyor/stacker no. 120B	120	1,051,200	0.003	0.0011	0.0011	1.5768	0.5782	0.5782	90%	0.1577	0.0578	0.0578
conveyor/stacker no. 120 E	10	87,600	0.003	0.0011	0.0011	0.1314	0.0482	0.0482	90%	0.0131	0.0048	0.0048
conveyor/stacker no. L-7	35	306,600	0.003	0.0011	0.0011	0.4599	0.1686	0.1686	90%	0.0460	0.0169	0.0169
crusher (primary) no. 111	700	6,132,000	0.0054	0.0024	0.0024	16.5564	7.3584	7.3584	90%	1.6556	0.7358	0.7358
crusher (secondary) no. 141	25	219,000	0.0054	0.0024	0.0024	0.5913	0.2628	0.2628	90%	0.0591	0.0263	0.0263
crusher (secondary) no. 144	225	1,971,000	0.0054	0.0024	0.0024	5.3217	2.3652	2.3652	90%	0.5322	0.2365	0.2365
belt feeder (conveyor) no. 102	1000	8,760,000	0.003	0.0011	0.0011	13.1400	4.8180	4.8180	90%	1.3140	0.4818	0.4818
grizzly/feeder	350	3,066,000	0.003	0.0011	0.0011	4.5990	1.6863	1.6863	90%	0.4599	0.1686	0.1686
feeder no. 101	1150	10,074,000	0.003	0.0011	0.0011	15.1110	5.5407	5.5407	90%	1.5111	0.5541	0.5541
loading bin	NA	10,074,000	0.003	0.0011	0.0011	15.1110	5.5407	5.5407	90%	1.5111	0.5541	0.5541
loading bin	NA	10,074,000	0.003	0.0011	0.0011	15.1110	5.5407	5.5407	90%	1.5111	0.5541	0.5541
loading bin (scrap), EU001	NA	100,740	0.003	0.0011	0.0011	0.1511	0.0554	0.0554	90%	0.0151	0.0055	0.0055
loading bin (scrap), EU02	NA	100,740	0.003	0.0011	0.0011	0.1511	0.0554	0.0554	90%	0.0151	0.0055	0.0055
magnet (drum) no. 103	NA	100,740	0.003	0.0011	0.0011	0.1511	0.0554	0.0554	90%	0.0151	0.0055	0.0055
magnet (pendulum) no. 103A	NA	100,740	0.003	0.0011	0.0011	0.1511	0.0554	0.0554	90%	0.0151	0.0055	0.0055
magnet (overband)	NA	100,740	0.003	0.0011	0.0011	0.1511	0.0554	0.0554	90%	0.0151	0.0055	0.0055
magnet (pulley) 42"	NA	100,740	0.003	0.0011	0.0011	0.1511	0.0554	0.0554	90%	0.0151	0.0055	0.0055
magnet (pulley) 30"	NA	100,740	0.003	0.0011	0.0011	0.1511	0.0554	0.0554	90%	0.0151	0.0055	0.0055
magnet (pulley) 24"	NA	100,740	0.003	0.0011	0.0011	0.1511	0.0554	0.0554	90%	0.0151	0.0055	0.0055
magnet (pulley) 30"	NA	100,740	0.003	0.0011	0.0011	0.1511	0.0554	0.0554	90%	0.0151	0.0055	0.0055
screen no. 105	630	5,518,800	0.025	0.0087	0.0087	68.9850	24.0068	24.0068	90%	6.8985	2.4007	2.4007
screen no. 106	630	5,518,800	0.025	0.0087	0.0087	68.9850	24.0068	24.0068	90%	6.8985	2.4007	2.4007
screen no. 120 A	110	963,600	0.025	0.0087	0.0087	12.0450	4.1917	4.1917	90%	1.2045	0.4192	0.4192
screen no. 120C	110	963,600	0.025	0.0087	0.0087	12.0450	4.1917	4.1917	90%	1.2045	0.4192	0.4192
Control Efficiency (wet suppression): 90%					Totals:	333.3	120.9	120.9	Totals:	33.3	12.1	12.1

Company Name: The Levy Company - Burns Harbor Facility
Address, City IN Zip: US Highway 12, Burns Harbor, IN 46304
SSM No.: 127-30302
Part 70 Operating Permit Renewal No.: 127-29719
Plt ID: 127-00026
Reviewer: Aida De Guzman
te Part 70 Operating Permit Renewal Application Received: Sept. 23, 2010
Date SSM Application Received: 3-Mar-2011

Potential to Emit - Section D.2: Finishing Plant (permitted on May 30, 2002 & constructed in 2003)

350 tons per hour capacity
3,066,000 tons per year
1% mag% of iron pulled out through each FE magnet

As permitted in SSM No, 127-15319-00026, issued on May 30, 2002

Finishing Plant	Capacity	Throughput	Emission Factors		Uncontrolled Emissions			Controlled		Limited Emissions	
Equipment	(ton/hr)	(tons/yr)	PM	PM_{10}	PM	PM_{10}	Efficiency	PM	PM_{10}	PM	PM_{10}
Feeder, A1	350	3,066,000	0.003	0.0011	4.5990	1.6863	90.00%	0.4599	0.1686	0.2628	0.0964
Feeder, A2	350	3,066,000	0.003	0.0011	4.5990	1.6863	90.00%	0.4599	0.1686	0.2628	0.0964
Conveyor/stacker, A1	250	2,190,000	0.003	0.0011	3.2850	1.2045	90.00%	0.3285	0.1205	0.2628	0.0964
Conveyor/stacker, B	250	2,190,000	0.003	0.0011	3.2850	1.2045	90.00%	0.3285	0.1205	0.2628	0.0964
Conveyor/stacker, A2	250	2,190,000	0.003	0.0011	3.2850	1.2045	90.00%	0.3285	0.1205	0.2628	0.0964
Conveyor/stacker, T3	48	420,480	0.003	0.0011	0.6307	0.2313	90.00%	0.0631	0.0231	0.2628	0.0901
Conveyor/stacker, C	48	420,480	0.003	0.0011	0.6307	0.2313	90.00%	0.0631	0.0231	0.2628	0.0964
Conveyor/stacker, T1	200	1,752,000	0.003	0.0011	2.6280	0.9636	90.00%	0.2628	0.0964	0.2628	0.0964
Conveyor/stacker, T2	200	1,752,000	0.003	0.0011	2.6280	0.9636	90.00%	0.2628	0.0964	0.2628	0.0964
Conveyor/stacker, D	250	2,190,000	0.003	0.0011	3.2850	1.2045	90.00%	0.3285	0.1205	0.2628	0.0964
Conveyor/stacker, E	250	2,190,000	0.003	0.0011	3.2850	1.2045	90.00%	0.3285	0.1205	0.2628	0.0964
Conveyor/stacker, J	113	989,880	0.003	0.0011	1.4848	0.5444	90.00%	0.1485	0.0544	0.2628	0.0964
Conveyor/stacker K	113	989,880	0.003	0.0011	1.4848	0.5444	90.00%	0.1485	0.0544	0.2628	0.0964
Conveyor/radial stacker, S2	113	989,880	0.003	0.0011	1.4848	0.5444	90.00%	0.1485	0.0544	0.2628	0.0964
Conveyor/stacker, I	200	1,752,000	0.003	0.0011	2.6280	0.9636	90.00%	0.2628	0.0964	0.2628	0.0964
Conveyor/radial stacker, S3	200	1,752,000	0.003	0.0011	2.6280	0.9636	90.00%	0.2628	0.0964	0.2628	0.0964
Conveyor/radial stacker, S5	50	438,000	0.003	0.0011	0.6570	0.2409	90.00%	0.0657	0.0241	0.2628	0.0964
Conveyor/stacker, H	50	438,000	0.003	0.0011	0.6570	0.2409	90.00%	0.0657	0.0241	0.2628	0.0964
Conveyor/radial stacker, S4	110	963,600	0.003	0.0011	1.4454	0.5300	90.00%	0.1445	0.0530	0.2628	0.0964
Conveyor/stacker, F	110	963,600	0.003	0.0011	1.4454	0.5300	90.00%	0.1445	0.0530	0.2628	0.0964
Conveyor/stacker, G	110	963,600	0.003	0.0011	1.4454	0.5300	90.00%	0.1445	0.0530	0.2628	0.0964
Conveyor/stacker, T1	200	1,752,000	0.003	0.0011	2.6280	0.9636	90.00%	0.2628	0.0964	0.2628	0.0964
Conveyor/stacker, T2	200	1,752,000	0.003	0.0011	2.6280	0.9636	90.00%	0.2628	0.0964	0.2628	0.0964
conveyor/stacker no. CC1	50	438,000	0.003	0.0011	0.6570	0.2409	90.00%	0.0657	0.2406	0.2628	0.0964
Crusher	200	1,752,000	0.0054	0.0024	4.7304	2.1024	90.00%	0.4730	0.2102	0.4730	0.2102
Screen, DD	250	2,190,000	0.025	0.0087	27.3750	9.5265	90.00%	2.7375	0.9527	2.1900	0.7621
Screen, SC2	250	2,190,000	0.025	0.0087	27.3750	9.5265	90.00%	2.7375	0.9527	2.1900	0.7621
Screen,SC3	50	438,000	0.025	0.0087	5.4750	1.9053	90.00%	0.5475	0.1905	2.1900	0.7621
Truck loading bin, CA II	105	3,066,000	0.003	0.0011	4.5990	1.6863	90.00%	0.4599	0.1686	0.2628	0.0964
Truck loading bin,	105	3,066,000	0.003	0.0011	4.5990	1.6863	90.00%	0.4599	0.1686	0.2628	0.0964
Truck loading bin, FA20	105	3,066,000	0.003	0.0011	4.5990	1.6863	90.00%	0.4599	0.1686	0.2628	0.0964
					132.2	47.7	Totals:	13.2	5.0	14.1	5.1
Throughput Limit		1,752,000									

Control Efficiency (wet suppression): 90%

Finishing Plant was constructed in 2002 and modified in 2004. PM2.5 was not a regulated pollutant in 2002 and 2004.

Potential to Emit - Slag Pot Dumping & Prep Operation (constructed in 1969)

ArcelorMittal Iron Production (tons): 5,460,000 Slag production is limited by ArcelorMittal Blast Furnace operations which has a permit limit of 5,460,000 tons molten iron.
PTE slag throughput (tons): 1,638,000 Slag production can be up to 30% of molten iron production. (*USGS Minerals Yearbook 2002, Slag-Iron and Steel Section*)

Slag Pots/Prep	Throughput	Emission Factors (lb/tn)**			Uncontrolled Emissions (tpy)			Control	Controlled Emissions (tpy)			
Equipment	(tons/yr)	PM	PM_{10}	$PM_{2.5}$	PM	PM_{10}	$PM_{2.5}$	Efficiency	PM	PM_{10}	$PM_{2.5}$	Comments
Slag pots/prep	1,638,000	0.19	0.19	0.19	155.6	155.6	155.6	0%	155.6	155.6	155.6	**
				Totals:	155.6	155.6	155.6	Totals:	155.6	155.6	155.6	

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te Part 70 Operating Permit Renewal Application Received: Sept. 23, 2010
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Potential to Emit - Section D.3: Portable Equipment

	Portable Equip	Capacity	Throughput	Emission Factors (lb/ton)			Uncontrolled Emissions (ton/yr)			Control	Controlled Emissions (ton/yr)			Limited Emissions	
	Equipment	(tph)	(tons/yr)	PM	PM_{10}	$PM_{2.5}$	PM	PM_{10}	$PM_{2.5}$	Efficiency	PM	PM_{10}	$PM_{2.5}$	PM	PM_{10}-$PM_{2.5}$
Barge loader for Nut Coke and Slag with feeder/conveyor, stacker (2	feeder/conveyor	300	2,628,000	0.003	0.0011	0.0011	3.9420	1.4454	1.4454	90%	0.3942	0.1445	0.1445	0.3942	0.1445
Barge loader for slag with feeder/conveyor, screen, stacker (3 drop pts)	stacker	300	2,628,000	0.003	0.0011	0.0011	3.9420	1.4454	1.4454	90%	0.3942	0.1445	0.1445	0.3942	0.1445
	feeder/conveyor	400	3,504,000	0.003	0.0011	0.0011	5.2560	1.9272	1.9272	90%	0.5256	0.1927	0.1927	0.3942	0.1445
	stacker	400	3,504,000	0.003	0.0011	0.0011	5.2560	1.9272	1.9272	90%	0.5256	0.1927	0.1927	0.3942	0.0000
Boat loader with feeder/conveyor & stacker (2 drop pts)	screen	400	3,504,000	0.025	0.0087	0.0087	43.8000	15.2424	15.2424	90%	4.3800	1.5242	1.5242	3.2850	1.1432
	feeder/conveyor	1500	13,140,000	0.003	0.0011	0.0011	19.7100	7.2270	7.2270	90%	1.9710	0.7227	0.7227	0.3942	0.1445
Crushing & Screening Operation (permitted in 127-24651-00026)	stacker	1500	13,140,000	0.003	0.0011	0.0011	19.7100	7.2270	7.2270	90%	1.9710	0.7227	0.7227	0.3942	0.1445
	crusher	300	2,628,000	0.0054	0.0024	0.0024	7.0956	3.1536	3.1536	90%	0.7096	0.3154	0.3154	0.7096	0.3154
	crusher	300	2,628,000	0.0054	0.0024	0.0024	7.0956	3.1536	3.1536	90%	0.7096	0.3154	0.3154	0.7096	0.3154
	screen	300	2,628,000	0.025	0.0087	0.0087	32.8500	11.4318	11.4318	90%	3.2850	1.1432	1.1432	3.2850	1.1432
Stacker with feeder/conveyor & stacker (2 drop pts)	9 conveyors	300	23,652,000	0.003	0.0011	0.0011	35.4780	13.0086	13.0086	90%	3.5478	1.3009	1.3009	0.3942	0.1445
	feeder/conveyor	250	2,190,000	0.003	0.0011	0.0011	3.2850	1.2045	1.2045	90%	0.3285	0.1205	0.1205	0.3942	0.1445
Screen unit with stacker/conveyor (2 drop	stacker	250	2,190,000	0.003	0.0011	0.0011	3.2850	1.2045	1.2045	90%	0.3285	0.1205	0.1205	0.3942	0.1445
	screen	250	2,190,000	0.025	0.0087	0.0087	27.3750	9.5265	9.5265	90%	2.7375	0.9527	0.9527	3.2850	1.1432
Screen unit with feeder/conveyor & stacker/conveyor (3 drop	conveyor/stacker	250	2,190,000	0.003	0.0011	0.0011	3.2850	1.2045	1.2045	90%	0.3285	0.1205	0.1205	0.3942	0.1445
	feeder/conveyor	250	2,190,000	0.003	0.0011	0.0011	3.2850	1.2045	1.2045	90%	0.3285	0.1205	0.1205	0.3942	0.1445
	screen	250	2,190,000	0.025	0.0087	0.0087	27.3750	9.5265	9.5265	90%	2.7375	0.9527	0.9527	3.2850	1.1432
2 stackers with feeder (1 drop each)	conveyor/stacker	250	2,190,000	0.003	0.0011	0.0011	3.2850	1.2045	1.2045	90%	0.3285	0.1205	0.1205	0.3942	0.1445
	conveyor/stacker	200	3,504,000	0.003	0.0011	0.0011	5.2560	1.9272	1.9272	90%	0.5256	0.1927	0.1927	0.3942	0.1445
Control Efficiency (wet suppression): 90%						Totals:	260.57	94.19	94.19	Totals:	26.06	9.42	9.42	19.68	6.94
		Limit	2,628,000												

The Barge loader for Nut Coke and Slag was determined to be exempt in AA 127-23652-00026 based upon 832 hrs/yr (or 2 barges/week). As seen in this table this unit is still an exempt unit with PM at 3.9 tons/yr (<5 tons/yr) based upon 8760 hrs/yr of operation and maximum throughput

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Potential to Emit - From Storage Piles

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
	PM10	0.35
	PM2.5	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 = 3.10 %

E = Emission Factors (lb/ton)

PM	PM10	PM2.5
0.0046207	0.0021855	0.000687

Production: 1,638,000 tons
Control Eff: 85%

3.78	**Uncontrolled PM (tons)**
1.79	**Uncontrolled PM10 (tons)**
0.56	**Uncontrolled PM2.5 (tons)**
0.57	**Controlled PM (tons)**
0.27	**Controlled PM10 (tons)**
0.08	**Controlled PM2.5 (tons)**

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

ArcelorMittal Iron Production (tons): 5,460,000 Slag production is limited by ArcelorMittal Blast Furnace operations which has a permit limit of 5,460,000 tons molten iron.
PTE slag throughput (tons): 1,638,000 Slag production can be up to 30% of molten iron production. (*USGS Minerals Yearbook 2002, Slag-Iron and Steel Section*)

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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^2)
k = particle size multiplier
N = number of disturbances
P_i = erosion potential corresponding to obs or prob fastest mile of wind for the ith period between disturbances, g/m^2

k =	1	particle size multiplier for PM
k =	0.5	particle size multiplier for PM10
k =	0.075	particle size multiplier for PM2.5

u* = friction velocity (m/s)
u*t = threshold friction velocity (m/s)
u*t = 1.33 m/s, using AP-42 value, Table 13.2.5-2 for Scoria (roadbed material)

Eqn 3:

$$P = 58(u^* - u_t^*)^2 + 25(u^* - u_t^*)$$

P = 0 for $u^* \le u^*_t$

u^+10 = fastest mile of reference anemometer ht, 10, for period between disturbances (m/s)
u^+ = 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)
$u^+10 = 1.05\ u^+$
u^+s = surface wind speed distribution (m/s)

Eqn 6:

$$U^+_s = u_{s/Ur}$$

u^+10 = fastest mile of reference anemometer ht, 10, for period between disturbances (m/s)
u_s = surface wind speed (m/s)
u_r = approach wind speed (m/s)

Eqn 7: u^*=0.10 u^+ s

u* = friction velocity (m/s)

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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^2
Area four sides =	720	m^2
Total Surface Area of Each Pile =	1368	m^2

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_s/u_r	% of Surface Area	Area (m_2)
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 FEED END OF THE SEPARATION PLANT

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

Maximum throughput =	1,150	tph
	10,074,000	tpy
Bulk Density of Slag =	1,762	kg/m3
Volume of the calculated pile above =	12,960	m^3
Weight of slag per pile =	22,835,520	kg of slag per pile
	25,172	tons of slag per pile
Estimated number of piles =	400	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_{10}	
	0.01	tons $PM_{2.5}$	
Emissions for all potential piles:	36.53	tons PM	uncontrolled
	18.27	tons PM_{10}	uncontrolled
	2.74	tons $PM_{2.5}$	uncontrolled
	90%	estimated control efficiency, wet suppression	
	3.65	tons PM	controlled
	1.83	tons PM_{10}	controlled
	0.27	tons $PM_{2.5}$	controlled

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PTE Wind Erosion from Storage Piles (Storage)

INTEGRATED WIND EROSION CALCULATION OF ONE PILE

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)

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

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

Assuming worst case of 365 day disturbances.

	u^+		u^+10	u^+s (m/s) = (u_s/u_t) u^+10				u^* (m/s) = 0.10 u^+s				Pile Subarea 1			Pile Subarea 2			Pile Subarea 3			Pile Subarea 4			Pile Subarea 5							Pile Subarea 6						
Period	mph	m/s	m/s	u_s/u_t: 0.2	u_s/u_t: 0.6	u_s/u_t: 0.9	u_s/u_t: 1.1	u_s/u_t: 0.2	u_s/u_t: 0.6	u_s/u_t: 0.9	u_s/u_t: 1.1	P_1		EF_{ALL}	P_2		EF_{ALL}	P_3		EF_{ALL}	P_4		EF_{ALL}	P_5	EF_{PM}	EF_{PM10}	$EF_{PM2.5}$	PM	PM_{10}	$PM_{2.5}$	P_6	EF_{PM}	EF_{PM10}	$EF_{PM2.5}$	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	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
2/6/2010	28	12.517	13.143	2.629	7.886	11.829	14.457	0.263	0.789	1.183	1.446	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	6.7	6.712	3.356	0.503	0.0003	0.0002	2E-05
2/7/2010	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
2/8/2010	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
2/9/2010	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
2/10/2010	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
2/11/2010	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
2/12/2010	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
2/13/2010	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
2/14/2010	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
2/15/2010	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
2/16/2010	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
2/17/2010	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
2/18/2010	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
2/19/2010	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
2/20/2010	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
2/21/2010	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
2/22/2010	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

Company Name: The Levy Company - Burns Harbor Facility
a contractor of ArcelorMittal Burns Harbor, LLC
Address, City IN Zip: US Highway 12, Burns Harbor, IN 46304
SSM No.: 127-30302
Part 70 Operating Permit Renewal No.: 127-29719
Plt ID: 127-00026
Reviewer: Aida De Guzman
Part 70 Operating Permit Renewal Application Received: Sept. 23, 2010
Date SSM Application Received: March 3, 2011

INTEGRATED WIND EROSION CALCULATION OF ONE PILE

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)

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

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

Assuming worst case of 365 day disturbances.

	u^*		u^*10	u^*s (m/s) = (u_s/u_t) u^*10				u^* (m/s) = 0.10 u^*s				Pile Subarea 1			Pile Subarea 2			Pile Subarea 3			Pile Subarea 4			Pile Subarea 5							Pile Subarea 6						
Period	mph	m/s	m/s	u_s/u_t: 0.2	u_s/u_t: 0.6	u_s/u_t: 0.9	u_s/u_t: 1.1	u_s/u_t: 0.2	u_s/u_t: 0.6	u_s/u_t: 0.9	u_s/u_t: 1.1	P_1		EF_{ALL}	P_2		EF_{ALL}	P_3		EF_{ALL}	P_4		EF_{ALL}	P_5	EF_{PM}	EF_{PM10}	$EF_{PM2.5}$	PM	PM_{10}	$PM_{2.5}$	P_6	EF_{PM}	EF_{PM10}	$EF_{PM2.5}$	PM	PM_{10}	$PM_{2.5}$
2/23/2010	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
2/24/2010	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
2/25/2010	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
2/26/2010	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
2/27/2010	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
2/28/2010	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
3/1/2010	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
3/2/2010	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
3/3/2010	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
3/4/2010	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
3/5/2010	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
3/6/2010	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
3/7/2010	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
3/8/2010	8	3.576	3.755	0.751	2.253	3.380	4.131	0.075	0.225	0.338	0.413	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
3/9/2010	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
3/10/2010	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
3/11/2010	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
3/12/2010	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
3/13/2010	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
3/14/2010	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
3/15/2010	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
3/16/2010	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
3/17/2010	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
3/18/2010	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
3/19/2010	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
3/20/2010	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
3/21/2010	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
3/22/2010	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
3/23/2010	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
3/24/2010	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
3/25/2010	36	16.093	16.898	3.380	10.139	15.208	18.588	0.338	1.014	1.521	1.859	0.0	=>	0.000	0.0	=>	0.000	0.0	=>	0.000	0.0	=>	0.000	11.1	11.068	5.534	0.830	0.003	0.0013	0.0002	30.7	30.670	15.335	2.300	0.0014	0.0007	0.0001
3/26/2010	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
3/27/2010	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
3/28/2010	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
3/29/2010	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
3/30/2010	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
3/31/2010	28	12.517	13.143	2.629	7.886	11.829	14.457	0.263	0.789	1.183	1.446	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	6.7	6.712	3.356	0.503	0.0003	0.0002	2E-05
4/1/2010	30	13.411	14.082	2.816	8.449	12.674	15.490	0.282	0.845	1.267	1.549	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	12.7	12.702	6.351	0.953	0.0006	0.0003	4E-05
4/2/2010	36	16.093	16.898	3.380	10.139	15.208	18.588	0.338	1.014	1.521	1.859	0.0	=>	0.000	0.0	=>	0.000	0.0	=>	0.000	0.0	=>	0.000	11.1	11.068	5.534	0.830	0.003	0.0013	0.0002	30.7	30.670	15.335	2.300	0.0014	0.0007	0.0001
4/3/2010	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
4/4/2010	35	15.646	16.429	3.286	9.857	14.786	18.072	0.329	0.986	1.479	1.807	0.0	=>	0.000	0.0	=>	0.000	0.0	=>	0.000	0.0	=>	0.000	8.6	8.618	4.309	0.646	0.002	0.001	0.0001	27.7	27.675	13.838	2.076	0.0013	0.0006	9E-05
4/5/2010	47	21.011	22.061	4.412	13.237	19.855	24.268	0.441	1.324	1.986	2.427	0.0	=>	0.000	0.0	=>	0.000	0.0	=>	0.000	0.0	=>	0.000	38.0	38.021	19.010	2.852	0.009	0.0043	0.0006	63.6	63.612	31.806	4.771	0.0029	0.0014	0.0002
4/6/2010	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
4/7/2010	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
4/8/2010	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
4/9/2010	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
4/10/2010	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
4/11/2010	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
4/12/2010	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
4/13/2010	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
4/14/2010	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
4/15/2010	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
4/16/2010	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
4/17/2010	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
4/18/2010	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
4/19/2010	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
4/20/2010	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
4/21/2010	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
4/22/2010	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
4/23/2010	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
4/24/2010	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
4/25/2010	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
4/26/2010	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
4/27/2010	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
4/28/2010	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
4/29/2010	37	16.540	17.368	3.474	10.421	15.631	19.104	0.347	1.042	1.563	1.910	0.0	=>	0.000	0.0	=>	0.000	0.0	=>	0.000	0.0	=>	0.000	13.5	13.518	6.759	1.014	0.003	0.0015	0.0002	33.7	33.665	16.832	2.525	0.0015	0.0008	0.0001

Company Name: The Levy Company - Burns Harbor Facility
a contractor of ArcelorMittal Burns Harbor, LLC
Address, City IN Zip: US Highway 12, Burns Harbor, IN 46304
SSM No.: 127-30302
Part 70 Operating Permit Renewal No.: 127-29719
Plt ID: 127-00026
Reviewer: Aida De Guzman
Part 70 Operating Permit Renewal Application Received: Sept. 23, 2010
Date SSM Application Received: March 3, 2011

INTEGRATED WIND EROSION CALCULATION OF ONE PILE

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)

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

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

Assuming worst case of 365 day disturbances.

	u^*		u^*10	u^*s (m/s) = $(u_s/u_{(1)})$ u^*10				u^* (m/s) = 0.10 u^*s				Pile Subarea 1			Pile Subarea 2			Pile Subarea 3			Pile Subarea 4			Pile Subarea 5							Pile Subarea 6						
Period	mph	m/s	m/s	u_s/u_t: 0.2	u_s/u_t: 0.6	u_s/u_t: 0.9	u_s/u_t: 1.1	u_s/u_t: 0.2	u_s/u_t: 0.6	u_s/u_t: 0.9	u_s/u_t: 1.1	P_1		EF_{ALL}	P_2		EF_{ALL}	P_3		EF_{ALL}	P_4		EF_{ALL}	P_5	EF_{PM}	EF_{PM10}	$EF_{PM2.5}$	PM	PM_{10}	$PM_{2.5}$	P_6	EF_{PM}	EF_{PM10}	$EF_{PM2.5}$	PM	PM_{10}	$PM_{2.5}$
4/30/2010	31	13.858	14.551	2.910	8.731	13.096	16.006	0.291	0.873	1.310	1.601	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	15.7	15.696	7.848	1.177	0.0007	0.0004	5E-05
5/1/2010	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
5/2/2010	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
5/3/2010	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
5/4/2010	28	12.517	13.143	2.629	7.886	11.829	14.457	0.263	0.789	1.183	1.446	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	6.7	6.712	3.356	0.503	0.0003	0.0002	2E-05
5/5/2010	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
5/6/2010	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
5/7/2010	32	14.305	15.021	3.004	9.012	13.518	16.523	0.300	0.901	1.352	1.652	0.0	=>	0.000	0.0	=>	0.000	0.0	=>	0.000	0.0	=>	0.000	1.3	1.267	0.634	0.095	3E-04	0.0001	2E-05	18.7	18.691	9.346	1.402	0.0008	0.0004	6E-05
5/8/2010	30	13.411	14.082	2.816	8.449	12.674	15.490	0.282	0.845	1.267	1.549	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	12.7	12.702	6.351	0.953	0.0006	0.0003	4E-05
5/9/2010	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
5/10/2010	30	13.411	14.082	2.816	8.449	12.674	15.490	0.282	0.845	1.267	1.549	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	12.7	12.702	6.351	0.953	0.0006	0.0003	4E-05
5/11/2010	29	12.964	13.612	2.722	8.167	12.251	14.974	0.272	0.817	1.225	1.497	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	9.7	9.707	4.853	0.728	0.0004	0.0002	3E-05
5/12/2010	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
5/13/2010	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
5/14/2010	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
5/15/2010	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
5/16/2010	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
5/17/2010	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
5/18/2010	30	13.411	14.082	2.816	8.449	12.674	15.490	0.282	0.845	1.267	1.549	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	12.7	12.702	6.351	0.953	0.0006	0.0003	4E-05
5/19/2010	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
5/20/2010	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
5/21/2010	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
5/22/2010	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
5/23/2010	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
5/24/2010	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
5/25/2010	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
5/26/2010	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
5/27/2010	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
5/28/2010	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
5/29/2010	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
5/30/2010	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
5/31/2010	31	13.858	14.551	2.910	8.731	13.096	16.006	0.291	0.873	1.310	1.601	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	15.7	15.696	7.848	1.177	0.0007	0.0004	5E-05
6/1/2010	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
6/2/2010	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
6/3/2010	11	4.917	5.163	1.033	3.098	4.647	5.680	0.103	0.310	0.465	0.568	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
6/4/2010	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
6/5/2010	31	13.858	14.551	2.910	8.731	13.096	16.006	0.291	0.873	1.310	1.601	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	15.7	15.696	7.848	1.177	0.0007	0.0004	5E-05
6/6/2010	29	12.964	13.612	2.722	8.167	12.251	14.974	0.272	0.817	1.225	1.497	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	9.7	9.707	4.853	0.728	0.0004	0.0002	3E-05
6/7/2010	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
6/8/2010	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
6/9/2010	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
6/10/2010	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
6/11/2010	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
6/12/2010	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
6/13/2010	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
6/14/2010	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
6/15/2010	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
6/16/2010	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
6/17/2010	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
6/18/2010	46	20.564	21.592	4.318	12.955	19.433	23.751	0.432	1.296	1.943	2.375	0.0	=>	0.000	0.0	=>	0.000	0.0	=>	0.000	0.0	=>	0.000	35.6	35.570	17.785	2.668	0.008	0.004	0.0006	60.6	60.617	30.309	4.546	0.0027	0.0014	0.0002
6/19/2010	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
6/20/2010	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
6/21/2010	36	16.093	16.898	3.380	10.139	15.208	18.588	0.338	1.014	1.521	1.859	0.0	=>	0.000	0.0	=>	0.000	0.0	=>	0.000	0.0	=>	0.000	11.1	11.068	5.534	0.830	0.003	0.0013	0.0002	30.7	30.670	15.335	2.300	0.0014	0.0007	0.0001
6/22/2010	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
6/23/2010	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
6/24/2010	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
6/25/2010	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
6/26/2010	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
6/27/2010	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
6/28/2010	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
6/29/2010	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
6/30/2010	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
7/1/2010	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
7/2/2010	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
7/3/2010	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
7/4/2010	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

Company Name: The Levy Company - Burns Harbor Facility
a contractor of ArcelorMittal Burns Harbor, LLC
Address, City IN Zip: US Highway 12, Burns Harbor, IN 46304
SSM No.: 127-30302
Part 70 Operating Permit Renewal No.: 127-29719
Plt ID: 127-00026
Reviewer: Aida De Guzman
Part 70 Operating Permit Renewal Application Received: Sept. 23, 2010
Date SSM Application Received: March 3, 2011

INTEGRATED WIND EROSION CALCULATION OF ONE PILE

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)

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

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

Assuming worst case of 365 day disturbances.

	u^*		u^*10	u^*s (m/s) = $(u_s/u_{t)}$ u^*10				u^* (m/s) = 0.10 u^*s				Pile Subarea 1			Pile Subarea 2			Pile Subarea 3			Pile Subarea 4			Pile Subarea 5							Pile Subarea 6						
Period	mph	m/s	m/s	u_s/u_t: 0.2	u_s/u_t: 0.6	u_s/u_t: 0.9	u_s/u_t: 1.1	u_s/u_t: 0.2	u_s/u_t: 0.6	u_s/u_t: 0.9	u_s/u_t: 1.1	P_1		EF_{ALL}	P_2		EF_{ALL}	P_3		EF_{ALL}	P_4		EF_{ALL}	P_5	EF_{PM}	EF_{PM10}	$EF_{PM2.5}$	PM	PM_{10}	$PM_{2.5}$	P_6	EF_{PM}	EF_{PM10}	$EF_{PM2.5}$	PM	PM_{10}	$PM_{2.5}$
7/5/2010	28	12.517	13.143	2.629	7.886	11.829	14.457	0.263	0.789	1.183	1.446	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	6.7	6.712	3.356	0.503	0.0003	0.0002	2E-05
7/6/2010	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
7/7/2010	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
7/8/2010	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
7/9/2010	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
7/10/2010	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
7/11/2010	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
7/12/2010	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
7/13/2010	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
7/14/2010	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
7/15/2010	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
7/16/2010	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
7/17/2010	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
7/18/2010	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
7/19/2010	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
7/20/2010	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
7/21/2010	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
7/22/2010	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
7/23/2010	29	12.964	13.612	2.722	8.167	12.251	14.974	0.272	0.817	1.225	1.497	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	9.7	9.707	4.853	0.728	0.0004	0.0002	3E-05
7/24/2010	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
7/25/2010	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
7/26/2010	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
7/27/2010	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
7/28/2010	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
7/29/2010	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
7/30/2010	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
7/31/2010	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
8/1/2010	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
8/2/2010	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
8/3/2010	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
8/4/2010	38	16.988	17.837	3.567	10.702	16.053	19.621	0.357	1.070	1.605	1.962	0.0	=>	0.000	0.0	=>	0.000	0.0	=>	0.000	0.0	=>	0.000	16.0	15.969	7.984	1.198	0.004	0.0018	0.0003	36.7	36.659	18.330	2.749	0.0017	0.0008	0.0001
8/5/2010	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
8/6/2010	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
8/7/2010	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
8/8/2010	30	13.411	14.082	2.816	8.449	12.674	15.490	0.282	0.845	1.267	1.549	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	12.7	12.702	6.351	0.953	0.0006	0.0003	4E-05
8/9/2010	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
8/10/2010	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
8/11/2010	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
8/12/2010	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
8/13/2010	31	13.858	14.551	2.910	8.731	13.096	16.006	0.291	0.873	1.310	1.601	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	15.7	15.696	7.848	1.177	0.0007	0.0004	5E-05
8/14/2010	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
8/15/2010	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
8/16/2010	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
8/17/2010	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
8/18/2010	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
8/19/2010	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
8/20/2010	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
8/21/2010	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
8/22/2010	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
8/23/2010	11	4.917	5.163	1.033	3.098	4.647	5.680	0.103	0.310	0.465	0.568	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
8/24/2010	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
8/25/2010	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
8/26/2010	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
8/27/2010	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
8/28/2010	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
8/29/2010	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
8/30/2010	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
8/31/2010	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
9/1/2010	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
9/2/2010	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
9/3/2010	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
9/4/2010	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
9/5/2010	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
9/6/2010	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
9/7/2010	37	16.540	17.368	3.474	10.421	15.631	19.104	0.347	1.042	1.563	1.910	0.0	=>	0.000	0.0	=>	0.000	0.0	=>	0.000	0.0	=>	0.000	13.5	13.518	6.759	1.014	0.003	0.0015	0.0002	33.7	33.665	16.832	2.525	0.0015	0.0008	0.0001
9/8/2010	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

Company Name: The Levy Company - Burns Harbor Facility
a contractor of ArcelorMittal Burns Harbor, LLC
Address, City IN Zip: US Highway 12, Burns Harbor, IN 46304
SSM No.: 127-30302
Part 70 Operating Permit Renewal No.: 127-29719
Plt ID: 127-00026
Reviewer: Aida De Guzman
Part 70 Operating Permit Renewal Application Received: Sept. 23, 2010
Date SSM Application Received: March 3, 2011

INTEGRATED WIND EROSION CALCULATION OF ONE PILE

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)

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

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

Assuming worst case of 365 day disturbances.

	u^*		u^*10	u^*s (m/s) = ($u_s/u_{t)}$ u^*10				u^* (m/s) = 0.10 u^*s				Pile Subarea 1			Pile Subarea 2			Pile Subarea 3			Pile Subarea 4			Pile Subarea 5							Pile Subarea 6						
Period	mph	m/s	m/s	u_s/u_t: 0.2	u_s/u_t: 0.6	u_s/u_t: 0.9	u_s/u_t: 1.1	u_s/u_t: 0.2	u_s/u_t: 0.6	u_s/u_t: 0.9	u_s/u_t: 1.1	P_1		EF_{ALL}	P_2		EF_{ALL}	P_3		EF_{ALL}	P_4		EF_{ALL}	P_5	EF_{PM}	EF_{PM10}	$EF_{PM2.5}$	PM	PM_{10}	$PM_{2.5}$	P_6	EF_{PM}	EF_{PM10}	$EF_{PM2.5}$	PM	PM_{10}	$PM_{2.5}$
9/9/2010	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
9/10/2010	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
9/11/2010	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
9/12/2010	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
9/13/2010	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
9/14/2010	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
9/15/2010	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
9/16/2010	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
9/17/2010	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
9/18/2010	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
9/19/2010	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
9/20/2010	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
9/21/2010	32	14.305	15.021	3.004	9.012	13.518	16.523	0.300	0.901	1.352	1.652	0.0	=>	0.000	0.0	=>	0.000	0.0	=>	0.000	0.0	=>	0.000	1.3	1.267	0.634	0.095	3E-04	0.0001	2E-05	18.7	18.691	9.346	1.402	0.0008	0.0004	6E-05
9/22/2010	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
9/23/2010	33	14.752	15.490	3.098	9.294	13.941	17.039	0.310	0.929	1.394	1.704	0.0	=>	0.000	0.0	=>	0.000	0.0	=>	0.000	0.0	=>	0.000	3.7	3.717	1.859	0.279	8E-04	0.0004	6E-05	21.7	21.686	10.843	1.626	0.001	0.0005	7E-05
9/24/2010	37	16.540	17.368	3.474	10.421	15.631	19.104	0.347	1.042	1.563	1.910	0.0	=>	0.000	0.0	=>	0.000	0.0	=>	0.000	0.0	=>	0.000	13.5	13.518	6.759	1.014	0.003	0.0015	0.0002	33.7	33.665	16.832	2.525	0.0015	0.0008	0.0001
9/25/2010	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
9/26/2010	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
9/27/2010	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
9/28/2010	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
9/29/2010	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
9/30/2010	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
10/1/2010	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
10/2/2010	29	12.964	13.612	2.722	8.167	12.251	14.974	0.272	0.817	1.225	1.497	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	9.7	9.707	4.853	0.728	0.0004	0.0002	3E-05
10/3/2010	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
10/4/2010	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
10/5/2010	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
10/6/2010	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
10/7/2010	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
10/8/2010	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
10/9/2010	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
10/10/2010	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
10/11/2010	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
10/12/2010	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
10/13/2010	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
10/14/2010	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
10/15/2010	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
10/16/2010	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
10/17/2010	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
10/18/2010	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
10/19/2010	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
10/20/2010	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
10/21/2010	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
10/22/2010	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
10/23/2010	30	13.411	14.082	2.816	8.449	12.674	15.490	0.282	0.845	1.267	1.549	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	12.7	12.702	6.351	0.953	0.0006	0.0003	4E-05
10/24/2010	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
10/25/2010	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
10/26/2010	38	16.988	17.837	3.567	10.702	16.053	19.621	0.357	1.070	1.605	1.962	0.0	=>	0.000	0.0	=>	0.000	0.0	=>	0.000	0.0	=>	0.000	16.0	15.969	7.984	1.198	0.004	0.0018	0.0003	36.7	36.659	18.330	2.749	0.0017	0.0008	0.0001
10/27/2010	41	18.329	19.245	3.849	11.547	17.321	21.170	0.385	1.155	1.732	2.117	0.0	=>	0.000	0.0	=>	0.000	0.0	=>	0.000	0.0	=>	0.000	23.3	23.319	11.660	1.749	0.005	0.0026	0.0004	45.6	45.644	22.822	3.423	0.0021	0.001	0.0002
10/28/2010	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
10/29/2010	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
10/30/2010	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
10/31/2010	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
11/1/2010	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
11/2/2010	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
11/3/2010	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
11/4/2010	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
11/5/2010	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
11/6/2010	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
11/7/2010	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
11/8/2010	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
11/9/2010	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
11/10/2010	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
11/11/2010	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
11/12/2010	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
11/13/2010	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

Company Name: The Levy Company - Burns Harbor Facility
a contractor of ArcelorMittal Burns Harbor, LLC
Address, City IN Zip: US Highway 12, Burns Harbor, IN 46304
SSM No.: 127-30302
Part 70 Operating Permit Renewal No.: 127-29719
Plt ID: 127-00026
Reviewer: Aida De Guzman
Part 70 Operating Permit Renewal Application Received: Sept. 23, 2010
Date SSM Application Received: March 3, 2011

INTEGRATED WIND EROSION CALCULATION OF ONE PILE

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)

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

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

Assuming worst case of 365 day disturbances.

	u^*		u^*10	u^*s (m/s) = ($u_s/u_{(1)}$ u^*10				u^* (m/s) = 0.10 u^*s				Pile Subarea 1			Pile Subarea 2			Pile Subarea 3			Pile Subarea 4			Pile Subarea 5							Pile Subarea 6						
Period	mph	m/s	m/s	u_s/u_t: 0.2	u_s/u_t: 0.6	u_s/u_t: 0.9	u_s/u_t: 1.1	u_s/u_t: 0.2	u_s/u_t: 0.6	u_s/u_t: 0.9	u_s/u_t: 1.1	P_1		EF_{ALL}	P_2		EF_{ALL}	P_3		EF_{ALL}	P_4		EF_{ALL}	P_5	EF_{PM}	EF_{PM10}	$EF_{PM2.5}$	PM	PM_{10}	$PM_{2.5}$	P_6	EF_{PM}	EF_{PM10}	$EF_{PM2.5}$	PM	PM_{10}	$PM_{2.5}$
11/14/2010	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
11/15/2010	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
11/16/2010	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
11/17/2010	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
11/18/2010	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
11/19/2010	28	12.517	13.143	2.629	7.886	11.829	14.457	0.263	0.789	1.183	1.446	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	6.7	6.712	3.356	0.503	0.0003	0.0002	2E-05
11/20/2010	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
11/21/2010	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
11/22/2010	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
11/23/2010	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
11/24/2010	29	12.964	13.612	2.722	8.167	12.251	14.974	0.272	0.817	1.225	1.497	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	9.7	9.707	4.853	0.728	0.0004	0.0002	3E-05
11/25/2010	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
11/26/2010	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
11/27/2010	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
11/28/2010	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
11/29/2010	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
11/30/2010	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
12/1/2010	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
12/2/2010	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
12/3/2010	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
12/4/2010	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
12/5/2010	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
12/6/2010	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
12/7/2010	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
12/8/2010	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
12/9/2010	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
12/10/2010	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
12/11/2010	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
12/12/2010	41	18.329	19.245	3.849	11.547	17.321	21.170	0.385	1.155	1.732	2.117	0.0	=>	0.000	0.0	=>	0.000	0.0	=>	0.000	0.0	=>	0.000	23.3	23.319	11.660	1.749	0.005	0.0026	0.0004	45.6	45.644	22.822	3.423	0.0021	0.001	0.0002
12/13/2010	30	13.411	14.082	2.816	8.449	12.674	15.490	0.282	0.845	1.267	1.549	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	12.7	12.702	6.351	0.953	0.0006	0.0003	4E-05
12/14/2010	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
12/15/2010	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
12/16/2010	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
12/17/2010	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
12/18/2010	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
12/19/2010	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
12/20/2010	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
12/21/2010	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
12/22/2010	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
12/23/2010	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
12/24/2010	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
12/25/2010	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
12/26/2010	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
12/27/2010	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
12/28/2010	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
12/29/2010	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
12/30/2010	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
12/31/2010	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
											Subarea Emission Totals:				**0**			**0**			**0**							**0.054**	**0.0272**	**0.0041**					**0.0368**	**0.0184**	**0.0028**

Company Name: The Levy Company - Burns Harbor Facility
a contractor of ArcelorMittal Burns Harbor, LLC
Address, City IN Zip: US Highway 12, Burns Harbor, IN 46304
SSM No.: 127-30302
Part 70 Operating Permit Renewal No.: 127-29719
Plt ID: 127-00026
Reviewer: Aida De Guzman
Date Part 70 Operating Permit Renewal Application Received: Sept. 23, 2010
Date SSM Application Received: March 3, 2011

Potential to Emit - FROM UNPAVED ROADWAYS

ArcelorMittal Iron Production (tons): 5,460,000 Slag production is limited by ArcelorMittal Blast Furnace operations which has a permit limit of 5,460,000 tons molten iron.
PTE slag throughput (tons): 1,638,000 Slag production can be up to 30% of molten iron production. (*USGS Minerals Yearbook 2002, Slag-Iron and Steel Section*)

Vehicle	Production (tons/yr)	Product Weight (tons/RT)	Round Trips/yr	Avg miles per round trip	VMT/yr
Pot Haulers	1,638,000	55	29,782	0.8	23,825
Trucks and haulers	1,638,000	50	32,760	0.50	16,380
Front-end loaders	1,638,000	15	109,200	0.10	10,920

						UNCONTROLLED PTE			CONTROLLED PTE		
Vehicle	Mean Weight (W) (tons)	PM Emission Factor[2] (lb/VMT)	PM2.5 Emission Factor[2] (lb/VMT)	PM10 Emission Factor[2] (lb/VMT)	VMT/yr	PM Emissions (TPY)	PM10 Emissions (TPY)	PM2.5 Emissions (TPY)	PM Emissions (TPY)	PM10 Emissions (TPY)	PM2.5 Emissions (TPY)
Pot Haulers	180	19.04	0.51	5.07	23,825	226.81	60.44	0.05754	34.0209	9.0664	0.00863
Trucks and haulers	64	11.96	0.32	3.19	16,380	97.91	26.09	0.01560	14.6868	3.9140	0.00234
Front-end loaders	31	8.63	0.23	2.30	10,920	47.11	12.55	0.00542	7.0659	1.8830	0.00081
						371.82	**99.09**	**0.08**	**55.77**	**14.86**	**0.01**

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 x (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)

Company Name: The Levy Company - Burns Harbor Facility
a contractor of ArcelorMittal Burns Harbor, LLC
Address, City IN Zip: US Highway 12, Burns Harbor, IN 46304
SSM No.: 127-30302
Part 70 Operating Permit Renewal No.: 127-29719
Plt ID: 127-00026
Reviewer: Aida De Guzman
Part 70 Operating Permit Renewal Application Received: Sept. 23, 2010
Date SSM Application Received: March 3, 2011

500
Throughput (tons): 4,380,000 tons per hour capacity
1.0% PTE throughput

NOTE: ArcelorMittal is limited to 5,460, 000 tons iron production wh **tons magnet throuput = % metals in the process stream
100% of slag feed stock for Levy comes from ArcelorMittal.

Proposed New Equipment: (Section D.3)

PORTABLE PLANT NO. 2			Capacity	Throughput	Emission Factors (lb/ton)*			Uncontrolled Emissions (tons/yr)			Control	Controlled Emissions (tons/yr)			Limited Emissions (tons/yr)		
Sequence	**Qty**	**Equipment**	**(tons/hr)**	**(tons/yr)**	**PM**	**PM_{10}**	**$PM_{2.5}$**	**PM**	**PM_{10}**	**$PM_{2.5}$**	**Efficiency**	**PM**	**PM_{10}**	**$PM_{2.5}$**	**PM**	**PM_{10}**	**$PM_{2.5}$**
1	1	grizzly	500	4,380,000	**0.003**	0.0011	0.0011	6.57	2.41	2.41	0.90	0.66	0.24	0.24	0.66	0.24	0.24
2	1	feed hopper	500	4,380,000	0.003	0.0011	0.0011	6.57	2.41	2.41	0.90	0.66	0.24	0.24	0.66	0.24	0.24
3	1	conveyor	500	4,380,000	0.003	0.0011	0.0011	6.57	2.41	2.41	0.90	0.66	0.24	0.24	0.66	0.24	0.24
4	1	feeder	500	4,380,000	0.003	0.0011	0.0011	6.57	2.41	2.41	0.90	0.66	0.24	0.24	0.66	0.24	0.24
5	1	conveyor	500	4,380,000	0.003	0.0011	0.0011	6.57	2.41	2.41	0.90	0.66	0.24	0.24	0.66	0.24	0.24
6	1	conveyor	500	4,380,000	0.003	0.0011	0.0011	54.75	2.41	2.41	0.90	0.66	0.24	0.24	0.66	0.24	0.24
7	1	screen	500	4,380,000	0.025	0.0087	0.0087	54.75	19.05	19.05	0.90	5.48	1.91	1.91	5.48	1.91	1.91
8	4	screen output conveyors (4 split: 3-discharge, 1-rec)	500	4,380,000	0.025	0.0087	0.0087	6.57	19.05	19.05	0.90	5.48	1.91	1.91	5.48	1.91	1.91
9	4	stacker/conveyors (4 split: 2-stack, 1-fin, 1-spare)	500	4,380,000	0.003	0.0011	0.0011	11.83	2.41	2.41	0.90	0.66	0.24	0.24	0.66	0.24	0.24
10	1	impactor (crusher)	500	4,380,000	0.0054	0.0024	0.0024	6.57	5.26	5.26	0.90	1.18	0.53	0.53	1.18	0.53	0.53
11	3	magnets	15	131,400	0.003	0.0011	0.0011	0.00	0.07	0.07	0.90	0.02	0.01	0.01	0.66	0.24	0.24
							Total (tons/yr):	**167.32**	**60.30**	**60.30**	**Total (tpy):**	**16.75**	**6.03**	**6.03**	**17.39**	**6.26**	**6.26**

Note: The new product size for Portable Plant No. 2 will utilize existing permitted stockpiles, used for another product size. These 2 product sizes will not be produced at the same time but alternately.
Therefore, no additional emission from stockpiles is created
Section D.3

ADDITIONAL PORTABLE EQUIPMENT			Capacity	Throughput	Emission Factors (lb/ton)*			Uncontrolled Emissions (tons/yr)			Control	Controlled Emissions (tons/yr)			Limited Emissions (tons/yr)		
Sequence	**Qty**	**Equipment**	**(tons/hr)**	**(tons/yr)**	**PM**	**PM_{10}**	**$PM_{2.5}$**	**PM**	**PM_{10}**	**$PM_{2.5}$**	**Efficiency**	**PM**	**PM_{10}**	**$PM_{2.5}$**	**PM**	**PM_{10}**	**$PM_{2.5}$**
NA	4	portable conveyors	1,800	15,768,000	0.003	0.0011	0.0011	23.65	8.67	8.67	0.90	2.37	0.87	0.87	0.66	0.24	0.24
NA	1	portable loader with feeder & conveyor/stacker (2 drop pts)	900	7,884,000	0.003	0.0011	0.0011	0.00	4.34	4.34	0.90	0.00	0.43	0.43	0.66	0.24	0.24
							Total (tons/yr):	**23.7**	**13.0**	**13.0**	**Total (tpy):**	**2.4**	**1.3**	**1.3**	**1.3**	**0.5**	**0.5**

* emission factors from AP-42

Limit 4,380,000	**Total Combined Controlled Emissions (tons/yr):**	**19.1**	**7.3**	**7.3**	**18.7**	**6.7**	**6.7**
	Significance Threshold (tons/yr):	**25**	**15**	**10**			

The 4 conveyors and 1 loader will not cause a de-bottlenecking to downstream processes because the feed end of the existing Separation Plant will not change.
All feed to the plant comes through the separation plant and splits off from it to various product operations such as Finishing, portable, etc.
These 4 conveyors and the 1 loader are stand-by units for use as auxiliary to these units, to which the feed does not change, but just moves to another leg within the existing operations.

Date SSM Application Received: March 3, 2011

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Section D.3 - Portable Generators

Generator	Existing Combined Fuel Usage Limit (gallons)	Size (kW)	Size (hp)	PM (tons/yr)	PM10 (tons/yr)	PM2.5 (tons/yr)	SO2 (tons/yr	NOx (tons/yr	VOC (tons/yr)	CO (tons/yr)
new generator		---	535	5.16	5.16	5.16	4.80	72.64	5.79	15.65
new generator		---	630	1.93	1.13	1.13	22.32	66.23	1.95	15.18
new engine		---	65	0.63	0.63	0.63	0.58	8.83	0.70	1.90
new engine		---	76	0.73	0.73	0.73	0.68	10.32	0.82	2.22
New Units Total Uncontrolled PTE	124830	---		**8.45**	**7.65**	**7.65**	**28.39**	**158.01**	**9.26**	**34.96**
existing generator		105	290							
existing generator		205	310							
existing generator		250	396	7.70	7.70	7.70	7.20	109.60	8.90	23.60
Existing Units Uncontrolled PTE				**7.70**	**7.70**	**7.70**	**7.20**	**109.60**	**8.90**	**23.60**
TOTAL UNLIMITED PTE				**16.15**	**15.35**	**15.35**	**35.59**	**267.61**	**18.16**	**58.56**
TOTAL LIMITED PTE				**2.80**	**2.80**	**2.80**	**2.60**	**39.86**	**3.25**	**8.59**

Note: Permitted 3 generators, 2 each at 250 kW and 1 at 100 Kw, a total of 600 kW. However, the source installed 1 generator at 250 kW, 1 at 205 kW and 1 at 105 kW, a total of 560 kW. Therefore, there is no increase in emissions from this change for the purposes of 326 IAC 2-7-10-5.

The Total NOx emissions of 158.01 tons/yr from the new generators is > 40 tons/yr. However, the existing fuel limit sourcewide will remain at 124,830 gallons/yr.
NO LIMIT INCREASE IS REQUESTED

EFs Diesel Generators <600 Hp		EFs Diesel Generators >600 Hp			
Pollutant	**EF (lb/hp-hr)**	**Pollutant**	**EF (lb/hp-hr)**		
PM	2.20E-03	**PM**	7.00E-04		
PM10	2.20E-03	**PM10**	4.10E-04		
PM2.5	2.20E-03	**PM2.5**	4.10E-04		
SO2	2.05E-03	**SO2**	8.09E-03 (0.00809 s)	s = 1 %	sulfur content
NOx	3.10E-02	**NOx**	2.40E-02		
VOC	2.47E-03	**VOC**	7.05E-04		
CO	6.68E-03	**CO**	5.50E-03		

Section D.3

PTE analysis for the small engine installed in 2007 on the screen at the existing portable plant shows it would have been exempt per 326 IAC 2-1.1-3(e)(1)(C).

Unit	Size (hp)	PM (tons/yr)	PM10 (tons/yr)	PM2.5 (tons/yr)	SO2 (tons/yr)	NOx (tons/yr)	VOC (tons/yr)	CO (tons/yr)
exempt small engine (existing portable plant screen)	70	0.67	0.67	0.67	0.63	9.50	0.76	2.05

PM (lb/hr)	PM10 (lb/hr)	PM2.5 (lb/hr)	SO2 (lb/hr)	NOx (lb/hr)	VOC (lb/hr)	CO (lb/hr)
0.154	0.154	0.154	0.1435	2.17	0.1729	0.4676

Company Name: The Levy Company - Burns Harbor Facility
a contractor of ArcelorMittal Burns Harbor, LLC
Address, City IN Zip: US Highway 12, Burns Harbor, IN 46304
SSM No.: 127-30302
Part 70 Operating Permit Renewal No.: 127-29719
Plt ID: 127-00026
Reviewer: Aida De Guzman
Part 70 Operating Permit Renewal Application Received: Sept. 23, 2010
Date SSM Application Received: March 3, 2011

As permitted in SSM No. 127-28706-00026

Emission Units	Capacity (tph)	Potential Throughput (tons/yr)	Uncontrolled EFs (lb/ton)			Controlled EFs (lb/ton)			Uncontrolled Emissions (tons/yr)			Controlled Emissions (tons/yr)		
			PM	PM_{10}	$PM_{2.5}$	PM	PM_{10}	$PM_{2.5}$	**PM**	**PM_{10}**	**$PM_{2.5}$**	**PM**	**PM_{10}**	**$PM_{2.5}$**
D.1 Separation Plant - Two (2) Scrap Loading Bins, EU001-02	1,150	20,148,000	0.003	0.0011	0.0011	0.0003	1.10E-04	1.10E-04	30.222	11.081	11.081	3.022	1.108	1.108
D.2 Finishing Plant - One (1) Crusher	250	2,190,000	0.0054	0.0024	0.0024	0.00054	2.40E-04	2.40E-04	5.913	2.628	2.628	0.591	0.263	0.263
D.2 Finishing Plant - Three (3) Truck Loading Bins	250	6,570,000	0.003	0.0011	0.0011	0.0003	1.10E-04	1.10E-04	9.855	3.614	3.614	0.986	0.361	0.361
D.3 Portable Equipment - Portable Barge for Slag Loading (2 drop points)	400	3,504,000	0.003	0.0011	0.0011	0.0003	1.10E-04	1.10E-04	5.256	1.927	1.927	0.526	0.193	0.193
D.3 Portable Equipment - Portable Boat Loading Unit (2 drop points)	1,500	13,140,000	0.003	0.0011	0.0011	0.0003	1.10E-04	1.10E-04	19.710	7.227	7.227	1.971	0.723	0.723
D.3 Potable Equipment - Portable Stacking Unit	250	2,190,000	0.003	0.0011	0.0011	0.0003	1.10E-04	1.10E-04	3.285	1.205	1.205	0.329	0.120	0.120
D.3 Portable Equipment - Portable Screen for Slag & Scarfing Material	250	2,190,000	0.025	0.0087	0.0087	0.0025	8.70E-04	8.70E-04	27.375	9.527	9.527	2.738	0.953	0.953
D.3 Portable Equipment - Portable Screening Unit (Coleman)	250	2,190,000	0.025	0.0087	0.0087	0.0025	8.70E-04	8.70E-04	27.375	9.527	9.527	2.738	0.953	0.953
D.3 Portable Equipment - Portable Stacker (Thor)	200	1,752,000	0.003	0.0011	0.0011	0.0003	1.10E-04	1.10E-04	2.628	0.964	0.964	0.263	0.096	0.096
D.3 Portable Equipment - Portable Stacker (Thor)	200	1,752,000	0.003	0.0011	0.0011	0.0003	1.10E-04	1.10E-04	2.628	0.964	0.964	0.263	0.096	0.096
								Total Emissions (tpy):	**134.25**	**48.66**	**48.66**	**13.42**	**4.87**	**4.87**

The controlled Efs in the AP-42 are based upon 95.9% for conveying and 92% for crushing operations
However, the source has only 90% control efficiency using wet suppression. Therefore Efs have been adjusted using the source's control.

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) * Controlled Emission Factor (lb/ton) / 2000 (lb/ton)
Where two (2) drops are indicated, the emissions are multiplied by a factor of 2.

Summary Controlled/Limited PTE (tons/yr)								
Emission Units	**PM**	**PM_{10}**	PM2.5	VOC	SO2	NOx	CO	
Units in Table 1								
D.1 Separation Plant - Two (2) Scrap Loading Bins, EU001-02	3.022	1.108	1.108	0.00	0.00	0.00	0.00	
D.2 Finishing Plant - One (1) Crusher	0.591	0.263	0.263	0.00	0.00	0.00	0.00	
D.2 Finishing Plant - Three (3) Truck Loading Bins	0.986	0.361	0.361	0.00	0.00	0.00	0.00	
D.3 Portable Equipment - Portable Barge for Slag Loading (2 drop points)	0.526	0.193	0.193	0.00	0.00	0.00	0.00	
D.3 Portable Equipment - Portable Boat Loading Unit (2 drop points)	1.971	0.723	0.723	0.00	0.00	0.00	0.00	
D.3 Potable Equipment - Portable Stacking Unit	0.329	0.120	0.120	0.00	0.00	0.00	0.00	
D.3 Portable Equipment - Portable Screen for Slag & Scarfing Material	2.738	0.953	0.953	0.00	0.00	0.00	0.00	
D.3 Portable Equipment - Portable Screening Unit (Coleman)	2.738	0.953	0.953	0.00	0.00	0.00	0.00	
D.3 Portable Equipment - Portable Stacker (Thor)	0.263	0.096	0.096	0.00	0.00	0.00	0.00	
D.3 Portable Equipment - Portable Stacker (Thor)	0.263	0.096	0.096	0.00	0.00	0.00	0.00	
Three (3) Generators	2.8	2.8	2.8	3.25	2.62	39.86	8.59	← From diesel fuel oil limit of 124,830 gal/yr
TOTAL LIMITED PTE	**16.22**	**7.67**	**7.67**	**3.25**	**2.62**	**39.86**	**8.59**	
PSD and NONATTAINMENT NSR SIGNIFICANCE LEVELS	**25**	**15**	**10**	**40**	**40**	**40**	**100**	
PSD and NONATTAINMENT NSR (Yes/No)	**No**	**No**	**No**	**No**	**No**	**No**	**No**	

Company Name: The Levy Company - Burns Harbor Facility
a contractor of ArcelorMittal Burns Harbor, LLC
Address, City IN Zip: US Highway 12, Burns Harbor, IN 46304
SSM No.: 127-30302
Part 70 Operating Permit Renewal No.: 127-29719
Plt ID: 127-00026
Reviewer: Aida De Guzman
Part 70 Operating Permit Renewal Application Received: Sept. 23, 2010
Date SSM Application Received: March 3, 2011

As permitted in SSM No. 127-28706-00026

Limited Emissions Diesel Fuel Throughput Limitation: 124,830 gallons per year

Unit Size (KW)	Max Capacity (hp)	Max Capacity (mmbtu/hr)	Operating Hours/yr	Diesel Fuel Use (gal)	PM Emissions (tpy)	PM10 Emissions (tpy)	PM2.5 Emissions (tpy)	SO2 Emissions (tpy)	NOx Emissions (tpy)	VOC Emissions (tpy)	CO Emissions (tpy)
105	141	0.985	8760	59,578	1.3	1.3	1.3	1.3	19.0	1.6	4.1
205	275	1.924	7709	102,361	2.3	2.3	2.3	2.2	32.7	2.7	7.0
250	335	2.346	7709	124,830	2.8	2.8	2.8	2.6	39.9	3.3	8.6
				Limited Emissions:	2.8	2.8	2.8	2.6	39.9	3.3	8.6

Potential Emissions

Unit Size (KW)	Max Capacity (hp)	Max Capacity (mmbtu/hr)	Operating Hours/yr	Diesel Fuel Use (gal)	PM Emissions (tpy)	PM10 Emissions (tpy)	PM2.5 Emissions (tpy)	SO2 Emissions (tpy)	NOx Emissions (tpy)	VOC Emissions (tpy)	CO Emissions (tpy)
105	141	0.985	8760	59,578	1.3	1.3	1.3	1.3	19.0	1.6	4.1
205	335	2.345	8760	141,802	3.2	3.2	3.2	3.0	45.3	3.7	9.8
250	335	2.345	8760	141,802	3.2	3.2	3.2	3.0	45.3	3.7	9.8
			TOTAL	343,181							
				Unlimited PTE:	7.7	7.7	7.7	7.2	109.6	8.9	23.6
				Limited PTE	2.80	2.80	2.80	2.62	39.86	3.25	8.59

METHODOLOGY
Limited Emissions = Max Capacity (MMBtu/hr) * Operating Hours (based on limited fuel usage) * Emission Factor/2000
Potential Emissions = Max Capacity (MMBtu/hr) * Operating Hours * Emission Factor/2000

Emission Factors for Diesel-fired Generators with less than 600 Horsepower Capacity

Pollutant	EF (lb/mmbtu)	EF Source
PM	0.31	AP-42, 3.3-1
PM10	0.31	AP-42, 3.3-1
PM2.5	0.31	AP-42, 3.3-1
SO2	0.29	AP-42, 3.3-1
NOx	4.41	AP-42, 3.3-1
VOC	0.36	AP-42, 3.3-1
CO	0.95	AP-42, 3.3-1

Fuel Usage Limit = 39.86 tons of NOx/yr /108.7 tons of NOx *340,344 gal/yr = 124,830 gal/yr permitted limit

NOx Limit = 4.41 lb/MMBtu * MM/1,000,000 * 144,865.8 Btu/gal = 0.639 lb NOx/gal diesel fuel

Note: The Fuel limit was based upon the main pollutant (NOx emissions)

7000 Btu/hp-hr
19300 BTU/lb, heating value for diesel fuel
0.9 specific gravity of diesel fuel
144865.8 BTU/gal, heating value for diesel fuel
1.34048257 hp per KW

Potential Throughput (MMBtu/yr) = [Heat Input Capacity (MMBtu/hr)] * [Maximum Hours Operated per Year]

Company Name: The Levy Company - Burns Harbor Facility
a contractor of ArcelorMittal Burns Harbor, LLC
Address, City IN Zip: US Highway 12, Burns Harbor, IN 46304
SSM No.: 127-30302
Part 70 Operating Permit Renewal 127-29719
Plt ID: 127-00026
Reviewer: Aida De Guzman
Part 70 Operating Permit Renewal Application Received: Sept. 23, 2010
Date SSM Application Received: March 3, 2011

AP-42 Table 11.19.2-2, 8/2004 version	Emission factors (lb/ton)		
Source	**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
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

May 6, 2011

Mr. Max Chesebro
The Levy Company, Inc
P.O. Box 540
Portage, IN 46368

Re: Public Notice
The Levy Company, Inc
Permit Level: Title V – Renewal & SSM
Permit Number: 127-29719-00026 &
127-30302-00026

Dear Mr. Chesebro:

Enclosed is a copy of your draft Title V – Renewal & SSM, Technical Support Document, emission calculations, and the Public Notice which will be printed in your local newspaper.

The Office of Air Quality (OAQ) has submitted the draft permit package to the Westchester Public Library, 200 W. Indiana Ave in Chesterton, IN. As a reminder, you are obligated by 326 IAC 2-1.1-6(c) to place a copy of the complete permit application at this library no later than ten (10) days after submittal of the application or additional information to our department. We highly recommend that even if you have already placed these materials at the library, that you confirm with the library that these materials are available for review and request that the library keep the materials available for review during the entire permitting process.

You will not be responsible for collecting any comments, nor are you responsible for having the notice published in the newspaper. The OAQ has requested that the Chesterton Tribune in Chesterton, IN publish this notice no later than May 10, 2011.

Please review the enclosed documents carefully. This is your opportunity to comment on the draft permit and notify the OAQ of any corrections that are needed before the final decision. Questions or comments about the enclosed documents should be directed to Aida DeGuman, Indiana Department of Environmental Management, Office of Air Quality, 100 N. Senate Avenue, Indianapolis, Indiana, 46204 or call (800) 451-6027, and ask for extension 3-4972 or dial (317) 233-4972.

Sincerely,

Michelle Denney
Permits Branch
Office of Air Quality

Enclosures
PN Applicant Cover letter. dot 3/27/08

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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ATTENTION: PUBLIC NOTICES, LEGAL ADVERTISING

May 6, 2011

Chesterton Tribune
P.O. Box 919
Chesterton, IN 46304

Enclosed, please find one Indiana Department of Environmental Management Notice of Public Comment for The Levy Company, Inc, Porter County, Indiana.

Since our agency must comply with requirements which call for a Notice of Public Comment, we request that you print this notice one time, no later than May 10, 2011.

Please send a notarized form, clippings showing the date of publication, and the billing to the Indiana Department of Environmental Management, Accounting, Room N1345, 100 North Senate Avenue, Indianapolis, Indiana, 46204.

We are required by the Auditor's Office to request that you place the Federal ID Number on all claims. If you have any conflicts, questions, or problems with the publishing of this notice or if you do not receive complete public notice information for this notice, please call Michelle Denney at 800-451-6027 and ask for extension 3-6867 or dial 317-233-6867.

Sincerely,

Michelle Denney
Permit Branch
Office of Air Quality

cc: OAQ Billing, Licensing and Training Section
Permit Level: Title V – Renewal & SSM
Permit Number: 127-29719-00026 & 127-30302-00026

Enclosure
PN Newspaper.dot 3/27/08

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

May 6, 2011

To: Westchester Public Library

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

Subject: **Important Information to Display Regarding a Public Notice for an Air Permit**

Applicant Name: The Levy Company – a contractor of ArcelorMittal Burns Harbor, LLC
Permit Number: 127-29719-00026 & 127-30302-00026

Enclosed is a copy of important information to make available to the public. This proposed project is regarding a source that may have the potential to significantly impact air quality. Librarians are encouraged to educate the public to make them aware of the availability of this information. The following information is enclosed for public reference at your library:

- Notice of a 30-day Period for Public Comment
- Request to publish the Notice of 30-day Period for Public Comment
- Draft Permit and Technical Support Document

You will not be responsible for collecting any comments from the citizens. Please refer all questions and request for the copies of any pertinent information to the person named below.

Members of your community could be very concerned in how these projects might affect them and their families. **Please make this information readily available until you receive a copy of the final package.**

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. Questions pertaining to the permit itself should be directed to the contact listed on the notice.

Enclosures
PN Library.dot 03/27/08

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Thomas W. Easterly
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Indianapolis, Indiana 46204
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Notice of Public Comment

May 6, 2011
The Levy Company – a contractor of ArcelorMittal Burns Harbor, LLC
127-29719-00026 & 127-30302-00026

Dear Concerned Citizen(s):

You have been identified as someone who could potentially be affected by this proposed air permit. The Indiana Department of Environmental Management, in our ongoing efforts to better communicate with concerned citizens, invites your comment on the draft permit.

Enclosed is a Notice of Public Comment, which has been placed in the Legal Advertising section of your local newspaper. The application and supporting documentation for this proposed permit have been placed at the library indicated in the Notice. These documents more fully describe the project, the applicable air pollution control requirements and how the applicant will comply with these requirements.

If you would like to comment on this draft permit, please contact the person named in the enclosed Public Notice. Thank you for your interest in the Indiana's Air Permitting Program.

Please Note: *If you feel you have received this Notice 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. If you have recently moved and this Notice has been forwarded to you, please notify us of your new address and if you wish to remain on the mailing list. Mail that is returned to IDEM by the Post Office with a forwarding address in a different county will be removed from our list unless otherwise requested.*

Enclosure
PN AAA Cover.dot 3/27/08

Mail Code 61-53

IDEM Staff	MIDENNEY 5/6/2011 The Levy Company, Inc. - 127-29719-00026 & 127-30302-00026 (draft)			AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender	▶	Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204	Type of Mail: **CERTIFICATE OF MAILING ONLY**	

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee Remarks
1		Max Chesebro The Levy Company, Inc. - contractor of ArcelorMitt PO Box 540 Portage IN 46368 (Source CAATS)									
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		Ms. Kathy Luther Northern Regional Planning Commission 6100 Southport Rd Portage IN 46368 (Affected Party)									
14		Burns Harbor Town Council 1240 N. Boo Rd Burns Harbor IN 46304 *(Local Official)*									
15		Eric & Sharon Haussman 57 Shore Drive Ogden Dunes IN 46368 *(Affected Party)*									

Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is $50,000 per piece subject to a limit of $50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is $500. The maximum indemnity payable is $25,000 for registered mail, sent with optional postal insurance. See ***Domestic Mail Manual*** **R900, S913**, and **S921** for limitations of coverage on inured and COD mail. See ***International Mail Manual*** for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.
15			

FACSIMILIE OF PS Form 3877

Mail Code 61-53

IDEM Staff	MIDENNEY 5/6/2011 The Levy Company, Inc. - 127-29719-00026 & 127-30302-00026 (draft)			AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender	▶	Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204	Type of Mail: **CERTIFICATE OF MAILING ONLY**	

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee Remarks
1		Vice President and General Manager ISG Burns Harbor 260 W US Hwy 12 Burns Harbor IN 46304 (Source ? addl contact)									
2		Susan Grenzebach OCS Environmental 130 Lincoln St. Porter IN 46304 *(Consultant)*									
3		Joseph Hero 11723 S Oakridge Drive St. John IN 46373 *(Affected Party)*									
4		Gitte Laasby Post Tribune 1433 E. 83rd Ave Merrillville IN 46410 *(Affected Party)*									
5		Mark Zeltwanger 26545 CR 52 Nappanee IN 46550 *(Affected Party)*									
6											
7											
8											
9											
10											
11											
12											
13											
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Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is $50,000 per piece subject to a limit of $50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is $500. The maximum indemnity payable is $25,000 for registered mail, sent with optional postal insurance. See ***Domestic Mail Manual*** **R900, S913**, and **S921** for limitations of coverage on inured and COD mail. See ***International Mail Manual*** for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.
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FACSIMILIE OF PS Form 3877