



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

TO: Interested Parties / Applicant

DATE: April 2, 2012

RE: ArcelorMittal Plate, LLC (Gary Plate) / 089-29905-00118

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

Notice of Decision: Approval – Effective Immediately

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

If you wish to challenge this decision, IC 4-21.5-3-7 and IC 13-15-6-1(b) or IC 13-15-6-1(a) require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204.

For an **initial Title V Operating Permit**, a petition for administrative review must be submitted to the Office of Environmental Adjudication within **thirty (30)** days from the receipt of this notice provided under IC 13-15-5-3, pursuant to IC 13-15-6-1(b).

For a **Title V Operating Permit renewal**, a petition for administrative review must be submitted to the Office of Environmental Adjudication within **fifteen (15)** days from the receipt of this notice provided under IC 13-15-5-3, pursuant to IC 13-15-6-1(a).

The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

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

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

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

Pursuant to 326 IAC 2-7-18(d), any person may petition the U.S. EPA to object to the issuance of an initial Title V operating permit, permit renewal, or modification within sixty (60) days of the end of the forty-five (45) day EPA review period. Such an objection must be based only on issues that were raised with reasonable specificity during the public comment period, unless the petitioner demonstrates that it was impracticable to raise such issues, or if the grounds for such objection arose after the comment period.

To petition the U.S. EPA to object to the issuance of a Title V operating permit, contact:

U.S. Environmental Protection Agency
401 M Street
Washington, D.C. 20406

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



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Part 70 Operating Permit Renewal OFFICE OF AIR QUALITY

**ArcelorMittal Plate, LLC (Gary Plate)
One North Broadway
Gary, Indiana 46402**

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

The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. Noncompliance with any provision of this permit, except any provision specifically designated as not federally enforceable, constitutes a violation of the Clean Air Act. It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in Section B, Emergency Provisions.

This permit 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.

Operation Permit No.: T089-29905-00118	
Issued by:  Chrystal A. Wagner, Section Chief Permits Branch Office of Air Quality	Issuance Date: April 2, 2012 Expiration Date: April 2, 2017

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SECTION A SOURCE SUMMARY

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

A.1 General Information [326 IAC 2-7-4(c)][326 IAC 2-7-5(14)][326 IAC 2-7-1(22)]

The Permittee owns and operates a stationary plate mill operation.

Source Address:	One North Broadway, Gary, Indiana 46402-3199
General Source Phone Number:	(219) 787-4973
SIC Code:	3399
County Location:	Lake
Source Location Status:	
Source Status:	Attainment for all criteria pollutants Part 70 Operating Permit Program Major Source, under PSD Rules Area Source, Section 112 of the Clean Air Act 1 of 28 Source Categories

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)][326 IAC 2-7-5(14)]

ArcelorMittal Plate, LLC (Gary Plate) consists of the following permitted emission units and pollution control devices:

One (1) Plate Mill Operation with an estimated maximum capacity of one (1) million tons per year, consisting of the following emission units:

(a) Plate Mill Slab Prep Facility

- (1) Three (3) Slow Cool Furnaces (Nos. 1-3), identified as ID #s 1, 2 and 3, installed in 1992, having a natural gas heat input of 16 MMBtu per hour each, exhausting through Roof Monitor SPRm1.
- (2) One (1) Slab Grinder, identified as ID #8, installed in 1985, having an estimated capacity of 264,000 tons per year, ducted to the Slab Grinder Baghouse, exhausting through Stack SPGrStk 01.

(b) Rolling Mill Operations

- (1) Two (2) natural gas-fired Continuous Reheat Furnaces (Nos. 1 and 2), identified as ID #s 9 and 10, installed in 1961, having an estimated heat input capacity of 300 MMBtu per hour each, exhausting through Stacks PMCFStk01, PMCFStk02 and Roof Monitor PMRm1.
- (2) Four (4) natural gas-fired Batch Reheat Furnaces (Nos. 5-8), identified as ID #s 11-14, installed in 1961, having an estimated maximum heat input capacity of 40 MMBtu per hour each, exhausting through the Roof Monitor PMRm1, Stack PMBReHStk6, Roof Monitor PMRm1, and Stack PMBReHStk8, respectively.

- (3) One (1) natural gas-fired Car Bottom Normalizing Furnace, identified as ID #21, installed in 1961, having an estimated maximum heat input capacity of 26 MMBtu per hour, exhausting through Roof Monitor PMRm1.
 - (4) Two (2) natural gas-fired Slow Cool Furnaces (Nos. 1 and 2), identified as ID #s 22 and 23, installed in 1991, having an estimated maximum heat input capacity of 32 MMBTU per hour each, exhausting through Roof Monitor PMRm1.
 - (5) One (1) Rolling Mill, with a series of stands and rollers for changing the shape of the final steel product, with a maximum capacity of 1,000,000 tons per year, including the following emission units:
 - (A) One (1) Hand Torch Scarfer, identified as ID #6, using natural gas combustion with a maximum heat input capacity of 1.0 MMBtu/hr, exhausting through roof monitor.
 - (B) One (1) Reversing Mill, identified as ID #15, exhausting inside the building.
- (c) Heat Treat Operations
- (1) One (1) natural gas-fired Plate Mill Heat Treatment Furnace (LOI), identified as ID #28, installed in 1997, with an estimated maximum heat input capacity of 56.5 MMBtu per hour, exhausting to a Stack PMHTStk1.
 - (2) Two (2) natural gas-fired Hardening Furnaces, identified as North Hardening Furnace (ID #24 installed in 1969) and South Hardening Furnace (ID #26 installed in 1962), having an estimated heat input capacity of 100 MMBtu per hour each, exhausting through Roof Monitor PMRm1.
 - (3) Two (2) natural gas-fired Tempering Furnaces, identified as North Tempering Furnace (ID #25 installed in 1969) and South Tempering Furnace (ID #27 installed in 1962), having an estimated maximum heat input capacity of 100 MMBtu per hour each, exhausting through Roof Monitor PMRm1.

A.3 Insignificant Activities [326 IAC 2-7-1(21)][326 IAC 2-7-4(c)][326 IAC 2-7-5(14)]

ArcelorMittal Plate, LLC (Gary Plate) also includes the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (a) Insignificant emission units in the Plate Mill Slab Prep Area:
 - (1) One (1) Slab Cutting and Debur Operation, identified as ID #4, using natural gas combustion with a maximum heat input capacity of 5.0 MMBtu/hr. [326 IAC 6.8-1-2]
 - (2) Slab Marking, identified as ID #5.
 - (3) Five (5) (Nos.1 through 5) Stress Hood Furnaces, identified as ID #7, with a total heat input capacity of 30.0 MMBtu/hr.
- (b) Insignificant emission units in the Rolling Mill Area:
 - (1) Hand Ink Stenciling, identified as ID #16.

- (2) Cold Ink Marking Unit, identified as ID #17.
 - (3) Coupon Cutting, identified as ID #18. [326 IAC 6.8-1-2]
 - (4) Four (4) Gantry Burners for plate cutting, identified as ID #19, each with a maximum heat input capacity of 0.5 MMBtu/hr, exhausting through roof monitor. [326 IAC 6.8-1-2]
- (c) Insignificant emission units in the Heat Treat Area:
- (1) Magnemag Cold Ink Marking Units #1 and #2, identified as ID #s 29 and 30.
 - (2) One (1) Plasma Cutter for sample coupon cutting, identified as ID #32. [326 IAC 6.8-1-2]
- (d) Other Insignificant emission units:
- (1) Eleven (11) natural gas fired bug burners, identified as ID #31, used throughout the facility as needed, each with a maximum heat input capacity of 0.11 MMBtu/hr. [326 IAC 6.8-1-2]
 - (2) Solvent parts washers, including cold cleaner degreasing units without remote solvent reservoirs, identified as ID #33, using a total maximum of 42 gallons per day of solvent. [326 IAC 8-3-2] [326 IAC 8-3-5] [326 IAC 8-3-8] [326 IAC 8-9]
 - (3) The following equipment related to manufacturing activities not resulting in the emission of HAPs: welding and soldering equipment. [326 IAC 6.8-1-2]
 - (4) Multiple natural gas-fired space heaters, with heat inputs ranging from 0.85 MMBtu/hr to 1.5 MMBtu/hr.
 - (5) A petroleum fuel, other than gasoline, dispensing facility, having a storage tank capacity less than or equal to ten thousand five hundred (10,500) gallons, and dispensing three thousand five hundred (3,500) gallons per day or less.
 - (6) Vessels storing hydraulic oils and lubricating oils.
 - (7) Water-based quenching operations used with heat treating processes.
 - (8) Paved and unpaved roads and areas. [326 IAC 6-4] [326 IAC 6.8-10]

A.4 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); or
- (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, T089-29905-00118, 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] [IC 13-17-12]

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:
 - (1) it contains a certification by a "responsible official" as defined by 326 IAC 2-7-1(34), and
 - (2) the certification states that, 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 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).

B.10 Preventive Maintenance Plan [326 IAC 2-7-5(12)][326 IAC 1-6-3]

- (a) A Preventive Maintenance Plan meets the requirements of 326 IAC 1-6-3 if it includes, at a minimum:

- (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.

The Permittee shall implement the PMPs.

- (b) If required by specific condition(s) in Section D of this permit where no PMP was previously required, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, including the following information on each facility:

- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
- (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
- (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

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

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

The PMP extension notification does not 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).

The Permittee shall implement the PMPs.

- (c) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions. The PMPs and their submittal do not 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).
- (d) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.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, or Northwest Regional Office within four (4) daytime business hours after

the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance and Enforcement Branch), or
Telephone Number: 317-233-0178 (ask for Office of Air Quality, Compliance and Enforcement Branch)
Facsimile Number: 317-233-6865
Northwest Regional Office phone: (219) 757-0265; fax: (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

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

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

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

The notification which shall be submitted by the Permittee does not require 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).

- (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)(8) 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 T089-29905-00118 and issued pursuant to permitting programs approved into the state implementation plan have been either:
 - (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 permit, all previous registrations and permits are superseded by this 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 Operating 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 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).

- (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 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).

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 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).

- (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) or (c) 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) or (c). 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) and (c)(1).

- (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 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).

- (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]

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

Any such application 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).

- (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 within thirty (30) calendar days of receipt of a billing. 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.

- (c) 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 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 twenty percent (20%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.2 Open Burning [326 IAC 4-1] [IC 13-17-9]

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

C.3 Incineration [326 IAC 4-2] [326 IAC 9-1-2]

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

C.4 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.5 Fugitive Particulate Matter Emissions [326 IAC 6.8-10-3]

Pursuant to 326 IAC 6.8-10-3 (formerly 326 IAC 6-1-11.1) (Lake County Fugitive Particulate Matter Control Requirements), the particulate matter emissions from source wide activities shall meet the following requirements:

- (a) The average instantaneous opacity of fugitive particulate emissions from a paved road shall not exceed ten percent (10%).
- (b) The average instantaneous opacity of fugitive particulate emissions from an unpaved road shall not exceed ten percent (10%).
- (c) The opacity of fugitive particulate emissions from exposed areas shall not exceed ten percent (10%) on a six (6) minute average.

- (d) The opacity of fugitive particulate emissions from continuous transfer of material onto and out of storage piles shall not exceed ten percent (10%) on a three (3) minute average.
- (e) The opacity of fugitive particulate emissions from storage piles shall not exceed ten percent (10%) on a six (6) minute average.
- (f) There shall be a zero (0) percent frequency of visible emission observations of a material during the inplant transportation of material by truck or rail at any time.
- (g) The opacity of fugitive particulate emissions from the inplant transportation of material by front end loaders and skip hoists shall not exceed ten percent (10%).
- (h) Material processing facilities shall include the following:
 - (1) There shall be a zero (0) percent frequency of visible emission observations from a building enclosing all or part of the material processing equipment, except from a vent in the building.
 - (2) The PM₁₀ emissions from building vents shall not exceed twenty-two thousandths (0.022) grains per dry standard cubic foot and ten percent (10%) opacity.
 - (3) The PM₁₀ stack emissions from a material processing facility shall not exceed twenty-two thousandths (0.022) grains per dry standard cubic foot and ten percent (10%) opacity.
 - (4) The opacity of fugitive particulate emissions from the material processing facilities, except a crusher at which a capture system is not used, shall not exceed ten percent (10%) opacity.
 - (5) The opacity of fugitive particulate emissions from a crusher at which a capture system is not used shall not exceed fifteen percent (15%).
- (i) The opacity of particulate emissions from dust handling equipment shall not exceed ten percent (10%).
- (j) Material transfer limits shall be as follows:
 - (1) The average instantaneous opacity of fugitive particulate emissions from batch transfer shall not exceed ten percent (10%).
 - (2) Where adequate wetting of the material for fugitive particulate emissions control is prohibitive to further processing or reuse of the material, the opacity shall not exceed ten percent (10%), three (3) minute average.
- (k) Any facility or operation not specified in 326 IAC 6.8-10-3 shall meet a twenty percent (20%), three (3) minute average opacity standard.

The Permittee shall achieve these limits by controlling fugitive particulate matter emissions according to the attached Fugitive Dust Control Plan.

C.6 Particulate Matter Contingency Measures [326 IAC 6.8-11]

The Permittee is subject to 326 IAC 6.8-11 (Lake County Particulate Matter Contingency Measures) and shall comply with 326 IAC 6.8-11-4, 326 IAC 6.8-11-5 and 326 IAC 6.8-11-6 (formerly 326 IAC 6-1-11.2(h), (i), (k), (l), (m), (o), (p) and (q) (Lake County Particulate Matter Contingency Measures) as required.

C.7 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 that meets the requirements of 326 IAC 2-7-6(1) 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.8 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 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).
- (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 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).
- (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.9 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.10 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 required by this permit cannot be installed and operated no later than ninety (90) days after permit issuance or the date of initial startup, 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 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).

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.11 Continuous Compliance Plan [326 IAC 6.8-8-1] [326 IAC 6.8-8-8]

- (a) Pursuant to 326 IAC 326 IAC 6.8-8-1, the Permittee shall submit to IDEM and maintain at source a copy of the Continuous Compliance Plan (CCP). The Permittee shall perform the inspections, monitoring and record keeping in accordance with the information in 326 IAC 6.8-8-5 through 326 IAC 6.8-8-7 or applicable procedures in the CCP.
- (b) Pursuant to 326 IAC 6.8-8-8, the Permittee shall update the CCP, as needed, retain a copy of any changes and updates to the CCP at the source and make the updated CCP

available for inspection by the department. The Permittee shall submit the updated CCP, if required to IDEM, OAQ within thirty (30) days of the update.

- (c) Pursuant to 326 IAC 6.8-8, failure to submit a CCP, maintain all information required by the CCP at the source, or submit a required update to a CCP is a violation of 326 IAC 6.8-8.

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 maintain the most recently submitted written emergency reduction plans (ERPs) consistent with safe operating procedures.
- (b) 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(11)] [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(s) is required by the D Section or an exceedance of a limitation in this permit:

- (a) The Permittee shall take a reasonable response step(s) to restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing excess emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction. The response may include, but is not limited to, the following:
 - (1) initial inspection and evaluation;

- (2) recording that operations returned or are returning to normal without operator action (such as through response by a computerized distribution control system);
or
 - (3) any necessary follow-up actions to return operation to normal or usual manner of operation.
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
- (1) monitoring results;
 - (2) review of operation and maintenance procedures and records; and/or
 - (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take a reasonable response step(s) shall be considered a deviation from the permit.
- (e) The Permittee shall record the reasonable response step(s) 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 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 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).

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]

- (a) In accordance with the compliance schedule specified in 326 IAC 2-6-3(b)(1), the Permittee shall submit by July 1 an emission statement covering the previous calendar year as follows:
 - (1) starting in 2004 and every three (3) years thereafter, and

- (2) any year not already required under (1) if the source emits volatile organic compounds or oxides of nitrogen into the ambient air at levels equal to or greater than twenty-five (25) tons during the previous calendar year.
- (b) 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 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).

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. Support information includes the following:
 - (AA) All calibration and maintenance records.
 - (BB) All original strip chart recordings for continuous monitoring instrumentation.
 - (CC) Copies of all reports required by the Part 70 permit.

Records of required monitoring information include the following:

- (AA) The date, place, as defined in this permit, and time of sampling or measurements.
- (BB) The dates analyses were performed.
- (CC) The company or entity that performed the analyses.
- (DD) The analytical techniques or methods used.
- (EE) The results of such analyses.
- (FF) The operating conditions as existing at the time of sampling or

measurement.

These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

- (b) Unless otherwise specified in this permit, for all record keeping requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or the date of initial start-up, whichever is later, to begin such record keeping.
- (c) If there is a reasonable possibility (as defined in 326 IAC 2-2-8(b)(6)(A), 326 IAC 2-2-8(b)(6)(B), 326 IAC 2-3-2(l)(6)(A), and/or 326 IAC 2-3-2(l)(6)(B)) that a “project” (as defined in 326 IAC 2-2-1(oo) and/or 326 IAC 2-3-1(jj)) 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(dd) and/or 326 IAC 2-3-1(y)) may result in significant emissions increase and the Permittee elects to utilize the “projected actual emissions” (as defined in 326 IAC 2-2-1(pp) and/or 326 IAC 2-3-1(kk)), the Permittee shall comply with following:
 - (1) Before beginning actual construction of the “project” (as defined in 326 IAC 2-2-1(oo) and/or 326 IAC 2-3-1(jj)) 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(pp)(2)(A)(iii) and/or 326 IAC 2-3-1(kk)(2)(A)(iii); and
 - (iv) An explanation for why the amount was excluded, and any netting calculations, if applicable.
- (d) If there is a reasonable possibility (as defined in 326 IAC 2-2-8(b)(6)(A) and/or 326 IAC 2-3-2(l)(6)(A)) that a “project” (as defined in 326 IAC 2-2-1(oo) and/or 326 IAC 2-3-1(jj)) 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(dd) and/or 326 IAC 2-3-1(y)) may result in significant emissions increase and the Permittee elects to utilize the “projected actual emissions” (as defined in 326 IAC 2-2-1(pp) and/or 326 IAC 2-3-1(kk)), the Permittee shall comply with following:

- (1) 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
- (2) 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. Proper notice submittal under Section B - Emergency Provisions satisfies the reporting requirements of this paragraph. 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 not later than thirty (30) days after the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include 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). A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.
- (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) 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 (d) in Section C - General Record Keeping Requirements for any "project" (as defined in 326 IAC 2-2-1(oo) and/or 326 IAC 2-3-1(jj)) 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(ww) and/or 326 IAC 2-3-1(pp), 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 (d)(1) and (2) 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(14)]:

One (1) Plate Mill Operation with a maximum capacity of one (1) million tons per year, consisting of:

- (a) Plate Mill Slab Prep Facility
 - (1) Three (3) Slow Cool Furnaces (Nos. 1-3), identified as ID #s 1, 2 and 3, installed in 1992, having a natural gas heat input of 16 MMBtu per hour each, exhausting through Roof Monitor SPRm1.
 - (2) One (1) Slab Grinder, identified as ID #8, installed in 1985, having an estimated capacity of 264,000 tons per year, ducted to the Slab Grinder Baghouse, exhausting through Stack SPGrStk 01.
- (b) Rolling Mill Operations
 - (1) Two (2) natural gas-fired Continuous Reheat Furnaces (Nos. 1 and 2), identified as ID #s 9 and 10, installed in 1961, having an estimated heat input capacity of 300 MMBtu per hour each, exhausting through Stacks PMCFStk01, PMCFStk02 and Roof Monitor PMRm1.
 - (2) Four (4) natural gas-fired Batch Reheat Furnaces (Nos. 5-8), identified as ID #s 11-14, installed in 1961, having an estimated maximum heat input capacity of 40 MMBtu per hour each, exhausting through the Roof Monitor PMRm1, Stack PMBReHStk6, Roof Monitor PMRm1, and Stack PMBReHStk8, respectively.
 - (3) One (1) natural gas-fired Car Bottom Normalizing Furnace, identified as ID #21, installed in 1961, having an estimated maximum heat input capacity of 26 MMBtu per hour, exhausting through Roof Monitor PMRm1.
 - (4) Two (2) natural gas-fired Slow Cool Furnaces (Nos. 1 and 2), identified as ID #s 22 and 23, installed in 1991, having an estimated maximum heat input capacity of 32 MMBTU per hour each, exhausting through Roof Monitor PMRm1.
 - (5) One (1) Rolling Mill, with a series of stands and rollers for changing the shape of the final steel product, with a maximum capacity of 1,000,000 tons per year, including the following emission units:
 - (A) One (1) Hand Torch Scarfer, identified as ID #6, using natural gas combustion with a maximum heat input capacity of 1.0 MMBtu/hr, exhausting through roof monitor.
 - (B) One (1) Reversing Mill, identified as ID #15, exhausting inside the building.
- (c) Heat Treat Operations
 - (1) One (1) natural gas-fired Plate Mill Heat Treatment Furnace (LOI), identified as ID #28, installed in 1997, with an estimated maximum heat input capacity of 56.5 MMBtu per hour, exhausting to a Stack PMHTStk1.
 - (2) Two (2) natural gas-fired Hardening Furnaces, identified as North Hardening Furnace (ID #24 installed in 1969) and South Hardening Furnace (ID #26 installed in 1962) having an estimated heat input capacity of 100 MMBtu per hour each, exhausting

through Roof Monitor PMRm1.

- (3) Two (2) natural gas-fired Tempering Furnaces, identified as North Tempering Furnace (ID #25 installed in 1969) and South Tempering Furnace (ID #27 installed in 1962) having an estimated maximum heat input capacity of 100 MMBtu per hour each, exhausting through Roof Monitor PMRm1.

Insignificant Activities

(a) Insignificant emission units in the Plate Mill Slab Prep Area:

- (1) One (1) Slab Cutting and Debur Operation, identified as ID #4, using natural gas combustion with a maximum heat input capacity of 5.0 MMBtu/hr. [326 IAC 6.8-1-2]
- (3) Five (5) (Nos.1 through 5) Stress Hood Furnaces, identified as ID #7, with a total heat input capacity of 30.0 MMBtu/hr.

(b) Insignificant emission units in the Rolling Mill Area:

- (3) Coupon Cutting, identified as ID #18. [326 IAC 6.8-1-2]
- (4) Four (4) Gantry Burners for plate cutting, identified as ID #19, each with a maximum heat input capacity of 0.5 MMBtu/hr, exhausting through roof monitor. [326 IAC 6.8-1-2]

(c) Insignificant emission units in the Heat Treat Area:

- (2) One (1) Plasma Cutter for sample coupon cutting, identified as ID #32. [326 IAC 6.8-1-2]

(d) Other Insignificant emission units:

- (1) Eleven (11) natural gas fired bug burners, identified as ID #31, used throughout the facility as needed, each with a maximum heat input capacity of 0.11 MMBtu/hr. [326 IAC 6.8-1-2]
- (3) The following equipment related to manufacturing activities not resulting in the emission of HAPs: welding and soldering equipment. [326 IAC 6.8-1-2]
- (4) Multiple natural gas-fired space heaters, with heat inputs ranging from 0.85 MMBtu/hr to 1.5 MMBtu/hr.

(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 Particulate Emissions Limitations [326 IAC 6.8-1-2]

Pursuant to 326 IAC 6.8-1-2 (formerly 326 IAC 6-1-2) (Particulate Matter Limitations for Lake County), particulate matter emissions from the hand torch scarfer (ID #6), the slab cutting and debur operation (ID #4), the coupon cutting operation (ID #18), the gantry burners (ID #19), the plasma cutter (ID #32), the bug burners (ID #31), and the welding and soldering equipment shall not exceed 0.03 grains per dry standard cubic feet (gr/dscf).

D.1.2 Lake County PM10 Emissions Requirements [326 IAC 6.8-2]

- (a) Pursuant to 326 IAC 6.8-2-38 (formerly 326 IAC 6-1-10.1(d)(36)), the PM10 emissions

from the Slab Grinder baghouse (ID #8) (SPGrStk01) shall not exceed 0.0100 gr/dscf and 2.57 lb/hr.

- (b) Pursuant to 326 IAC 6.8-2-1(d), the Permittee shall combust only natural gas in the Continuous Reheat Furnaces Nos. 1 and 2 (ID #s 9 and 10), the Plate Mill Batch Reheat Furnaces Nos. 6 and 8 (ID #s 12 and 14), and the Plate Mill Heat Treatment Furnace (LOI) (ID #28).

D.1.3 Non-Applicability of Particulate Emission Limitations [326 IAC 6.8-1-2]

The Permittee shall only burn natural gas in the following units: Slow Cool Furnaces Nos. 1-3 (ID #s 1-3), Batch Reheat Furnaces Nos. 5 and 7 (ID #s 11 and 13), Car Bottom Normalizing Furnace (ID #21), Slow Cool Furnaces Nos. 1 and 2 (ID #s 22 and 23), North Hardening Furnace (ID #24), South Hardening Furnace (ID #26), North Tempering Furnace (ID #25), South Tempering Furnace (ID #27), stress hood furnaces (ID #7), and space heaters. Compliance with this limit shall render the requirements of 326 IAC 6.8-1-2 not applicable for the above listed units.

D.1.4 Area Source Limit [40 CFR 63]

The total natural gas usage for all operations by the Permittee shall be less than 11,000 million cubic feet per twelve (12) consecutive month period, with compliance determined at the end of each month. Compliance with this limitation shall limit the potential to emit of hexane to less than ten (10) tons per twelve (12) consecutive month period and render this source an area source under 40 CFR Part 63.

D.1.5 Nitrogen Oxides Emission Limitations [326 IAC 2-2][326 IAC 2-3]

- (a) The total natural gas usage for the five (5) Slow Cool Furnaces (ID #s 1-3, 22, and 23, installed in 1991 and 1992) combined shall not exceed 779 million cubic feet per twelve (12) consecutive month period, with compliance determined at the end of each month. Compliance with this limit shall limit the potential to emit of NO_x from the project to less than forty (40) tons per twelve (12) consecutive month period and render 326 IAC 2-2 (PSD) and 326 IAC 2-3 (Emission Offset) not applicable.
- (b) The total natural gas usage for the Plate Mill Heat Treatment Furnace (ID #28), shall not exceed 279.2 million cubic feet per twelve (12) consecutive month period, with compliance determined at the end of each month. Compliance with this limit shall limit the potential to emit of NO_x from the project to less than forty (40) tons per twelve (12) consecutive month period and render 326 IAC 2-2 (PSD) and 326 IAC 2-3 (Emission Offset) not applicable.

D.1.6 Preventive Maintenance Plan [326 IAC 2-7-5(12)]

A Preventive Maintenance Plan is required for these facilities and control devices. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the plans required by this condition.

Compliance Determination Requirements

D.1.7 Particulate Control [326 IAC 2-7-6(6)]

In order to ensure compliance with Condition D.1.2(a), the Slab Grinder baghouse (SPGrStk01) shall be in operation at all times the slab grinder is in operation, in order to control Particulate emissions.

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

D.1.8 Visible Emissions Notations [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

- (a) Daily visible emission notations of the Slab Grinder baghouse (SPGrStk01) exhaust shall

be performed during normal daylight operations when exhausting to the atmosphere. 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 a reasonable response step(s). Section C-Response to Excursions or Exceedences contains the Permittee's obligation with regard to the response step(s) required by this condition. Failure to take a response step(s) shall be considered a deviation from this permit.

D.1.9 Broken or Failed Bag Detection - Multi-Compartment Baghouse

In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

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

D.1.10 Record Keeping Requirements

- (a) To document the compliance status with Condition D.1.4, the Permittee shall maintain a log of the total source-wide natural gas usage on a monthly basis.
- (b) To document the compliance status with Condition D.1.5(a), the Permittee shall maintain a log of the natural gas usage in the five (5) Slow Cool Furnaces (ID #s 1-3, 22, and 23) on a monthly basis.
- (c) To document the compliance status with Condition D.1.5(b), the Permittee shall maintain a log of the natural gas usage in the Plate Mill Heat Treatment Furnace (ID #28) on a monthly basis.
- (d) To document the compliance status with Condition D.1.9, the Permittee shall maintain records of the once per day visible emissions of the Slab Grinder baghouse (SPGrStk01). 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). If the emission unit is not in operation for greater than twenty-four (24) hours, the Permittee may indicate the idle date and restart date in the log in lieu of the once per day visible emission records.
- (e) Section C - General Record Keeping Requirements contains the Permittee's obligation with regard to the records required by this condition.

D.1.11 Reporting Requirements

A quarterly summary of the information to document the compliance status with Conditions D.1.4

and D.1.5 shall be submitted using the reporting forms located at the end of this permit, or their equivalent, no later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting Requirements contains the Permittee's obligation with regard to the reporting required by this condition. The reports submitted by the Permittee do 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(14)]:

Insignificant Activities:

(d) Other Insignificant emission units:

- (2) Solvent parts washers, including cold cleaner degreasing units without remote solvent reservoirs, identified as ID #33, using a total maximum of 42 gallons per day of solvent. [326 IAC 8-3-2] [326 IAC 8-3-5] [326 IAC 8-3-8] [326 IAC 8-9]

(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 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operation), for cold cleaning operations constructed after January 1, 1980, the Permittee shall:

- (a) Equip the cleaner with a cover;
- (b) Equip the cleaner with a facility for draining cleaned parts;
- (c) Close the degreaser cover whenever parts are not being handled in the cleaner;
- (d) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
- (e) Provide a permanent, conspicuous label summarizing the operation requirements; and
- (f) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

D.2.2 Volatile Organic Compounds (VOC) [326 IAC 8-3-5]

- (a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), for cold cleaner degreaser operations without remote solvent reservoirs existing as of July 1, 1990, located in Clark, Elkhart, Floyd, Lake, Marion, Porter or St. Joseph Counties, the Permittee shall ensure that the following control equipment 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 or carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.
- (b) Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), the Permittee 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.2.3 Volatile Organic Compounds (VOC) [326 IAC 8-3-8]

Pursuant to 326 IAC 8-3-8 (Material Requirements for Cold Cleaning Degreasers), the Permittee shall not 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).

Record Keeping and Reporting Requirement [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.2.4 Record Keeping Requirements

- (a) To document the compliance status with Condition D.2.3 and pursuant to 326 IAC 8-3-8(d)(2) and (e), the Permittee shall maintain the following records for each purchase of solvent. These records 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.

- (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).
- (b) To document the compliance status with 326 IAC 8-9, the Permittee of each Volatile Organic Liquid Storage vessel to which 326 IAC 8-9 applies, shall maintain the following records for the life of each vessel:
- (1) The vessel identification number.
 - (2) The vessel dimensions.
 - (3) The vessel capacity.

D.2.5 Reporting Requirements

To document the compliance status with 326 IAC 8-9, a one-time report of the information listed in Condition D.2.4(b) shall be submitted to IDEM, OAQ not later than one hundred eighty (180) days after issuance of T089-29905-00118. Section C - General Reporting Requirements 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).

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
PART 70 OPERATING PERMIT
CERTIFICATION**

Source Name: ArcelorMittal Plate, LLC (Gary Plate)
Source Address: One North Broadway, Gary, Indiana 46402
Part 70 Permit No.: T089-29905-00118

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

Please check what document is being certified:

- Annual Compliance Certification Letter
- 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:

Phone:

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: ArcelorMittal Plate, LLC (Gary Plate)
Source Address: One North Broadway, Gary, Indiana 46402
Part 70 Permit No.: T089-29905-00118

This form consists of 2 pages

Page 1 of 2

- This is an emergency as defined in 326 IAC 2-7-1(12)
- The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and
 - The Permittee must submit notice in writing or by facsimile within two (2) working 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
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: ArcelorMittal Plate, LLC (Gary Plate)
Source Address: One North Broadway, Gary, Indiana 46402
Part 70 Permit No.: T089-29905-00118
Facility: Slow Cool Furnaces (ID #s 1-3, 22, and 23)
Parameter: Natural gas usage
Limit: Shall not exceed 779 million cubic feet per twelve (12) consecutive month period,
with compliance determined at the end of each month.

QUARTER :

YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	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: ArcelorMittal Plate, LLC (Gary Plate)
Source Address: One North Broadway, Gary, Indiana 46402
Part 70 Permit No.: T089-29905-00118
Facility: Source-wide natural gas combustion units
Parameter: Natural gas usage
Limit: Shall be less than 11,000 million cubic feet per twelve (12) consecutive month period, with compliance determined at the end of each month.

QUARTER :

YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	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 OPERATING PERMIT
 QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: ArcelorMittal Plate, LLC (Gary Plate)
 Source Address: One North Broadway, Gary, Indiana 46402
 Part 70 Permit No.: T089-29905-00118

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

This report shall be submitted quarterly based on a calendar year. Proper notice submittal under Section B - Emergency Provisions satisfies the reporting requirements of paragraph (a) of Section C - General Reporting Requirements. Any deviation from the requirements of this permit, 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".	
<input type="checkbox"/> NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.	
<input type="checkbox"/> 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 Step(s) Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Step(s) Taken:	

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

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

Attachment A
to Part 70 Operating Permit Renewal No.: T089-29905-00118

FUGITIVE DUST CONTROL PLAN

ArcelorMittal Plate, LLC (Gary Plate)
1 North Broadway Avenue
Gary, Indiana 46402

This source is located within the United States Steel Corporation (Gary Works) facility. The owner of the operation is ArcelorMittal USA.

Operations with potential fugitive emissions:

- A. Paved roads and parking lots
 - Main roads are maintained by United States Steel Corporation.
 - Vehicular traffic is limited to paved roads.
- B. Unpaved roads and parking lots
 - There are no unpaved roads.
 - There are unpaved areas. These areas are not traveled to produce fugitive dust problems.
- C. Material transfer
 - All operations are done within buildings to prevent fugitive dust emissions.
- D. Wind erosion from storage piles and exposed areas
 - Storage piles are not necessary for operations. Any temporary piles that may be needed will be kept to a minimal size to reduce fugitive emissions.
- E. Material transportation activities
 - The Plate Mill operations have prepared slabs for processing delivered on flat bed trucks into an enclosed slab yard.
 - The Heat Treat operations have plate delivered for processing on flat bed trucks into an enclosed delivery area.
 - Rolled and heat treated plates are loaded on trucks and rail for customers within buildings.
- F. Material processing facilities
 - There are no materials currently processed that have a proportion of loose, dry dust equal to or greater than five-tenths percent (0.5%) as measured by the ASTM C-136 method, that has a potential to emit particulate emissions when disturbed by transfer, processing, and transportation activities defined by 326 IAC 6.8-10.
- G. Dust handling equipment
 - There is a permitted slab grinder on-site that is ducted to a baghouse exhausting through stack SPGrStk 01. This equipment is currently not operated.
- H. Other
 - There is a roof monitor to exhaust fugitives from within the building.

Description of Facility

The facility has three operating areas; 1) Slab Preparation; 2) Plate Rolling Mill; and 3) Heat Treating. The slab preparation processes are not currently operating. The plate rolling mill has a slab storage yard for incoming prepared slabs. These slabs are then heated and rolled to produce plate. Plate is then cooled, stenciled, cut to length and width, and eventually shipped to customers.

Heat Treating is a separate operation that receives plates already cut to width to normalize, quench, and or tempered to improve structural qualities. Heat treated plate is then stenciled and cut to length as needed before being shipped to customers.

Raw materials consist of steel slabs and steel plate that have no potential for fugitive emissions.

Control Measures and Practices

The facility limits traffic to paved roads, minimizes storage piles, and requests United States Steel Corporation flush or sweep roads if necessary as the fugitive control measures or practices. The facility also performs Visible Emissions for the slab grinder on-site that is ducted to a baghouse exhausting through stack SPGrStk 01.

Conditions that will prevent control measures and practices/alternative controls

There are no known conditions that will prevent control measures.

Schedule for achieving compliance

The facility's fugitive emissions are in compliance with 326 IAC 6.8-10 for Lake County, Indiana.

Documentation to show compliance

Map of emission sources, see attached.

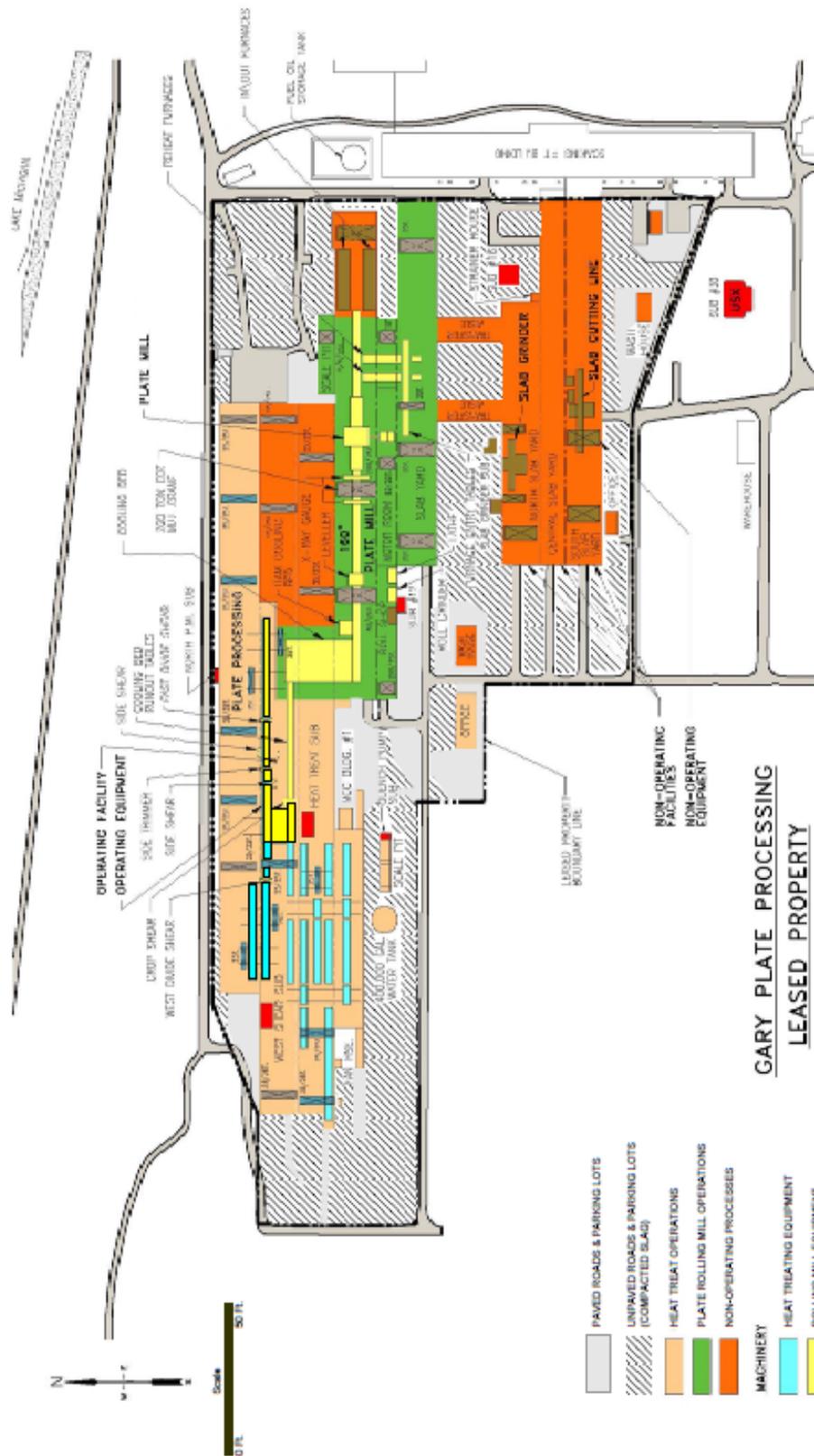
Road Flushing and Sweeping

- Main roads are maintained by United States Steel Corporation and records are part of their Title V Fugitive Dust Control Program. Documentation of any solution applications are their records and not the responsibility of ArcelorMittal Plate, LLC. (Gary Plate).

Incident Log

Quarterly Report

- United States Steel Corporation (Gary Works) is the owner of the roads leading to the facility. They maintain fugitive dust emissions through their Title V program. Quarterly Reports will be submitted by United States Steel Corporation. Copies of the quarterly reports are not the responsibility of ArcelorMittal Plate, LLC (Gary Plate).



ArcelorMittal Plate, LLC. (Gary Plate)
 Fugitive Dust Control Plan
 Emission Sources Map, Attachment 1
 3-16-2008

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

Addendum to the Technical Support Document (TSD)
for a Part 70 Operating Permit Renewal

Source Description and Location
--

Source Name:	ArcelorMittal Plate, LLC (Gary Plate)
Source Location:	1 N Broadway, Gary, Indiana 46402
County:	Lake
SIC Code:	3399
Permit Renewal No.:	T089-29905-00118
Permit Reviewer:	Laura Spriggs

Public Notice Information

On February 3, 2012, the Office of Air Quality (OAQ) had a notice published in *Post Tribune* Merrillville, Indiana and *The Times* in Munster, Indiana, stating that ArcelorMittal Plate, LLC (Gary Plate) had applied to renew its Part 70 Operating Permit. The notice also stated that OAQ proposed to issue a permit for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

Comments Received

On March 5, 2012, OAQ received comments from Richard Guerra of ArcelorMittal Plate, LLC (Gary Plate). The comments are summarized in the subsequent pages, with IDEM's corresponding responses.

IDEM does not amend the Technical Support Document (TSD). The TSD is maintained to document the original review. This addendum to the TSD is used to document responses to comments and changes made from the time the permit was drafted until a final decision is made.

The summary of the comments and IDEM, OAQ responses, including changes to the permit (language deleted is shown in ~~strikeout~~ and language added is shown in **bold**) are as follows:

Comment 1:

Condition A.1. The Source Location Status and Source Status have been revised to indicate that the facility is in a location (Lake County) that is in nonattainment status for PM_{2.5} making the facility subject to nonattainment NSR rules. While this condition correctly states that Lake County is in attainment for all other criteria pollutants, the Source Location Status should be revised to reflect the fact that Lake County was re-designated as attainment for PM_{2.5} on December 7, 2011. See 76 Fed Reg 76302. IDEM acknowledged this change in its recent emergency rulemaking to amend 326 IAC 1-4 to add the Lake County federal re-designation for PM_{2.5}, which became effective on February 6, 2012. See LSA Document #12-71(E). Therefore, ArcelorMittal requests that IDEM revise the "Source Location Status" in Condition A.1 from "Nonattainment for

PM2.5 standard” and “Attainment for all other criteria pollutants” to “Attainment for all criteria pollutants.”

IDEM Response 1:

IDEM, OAQ agrees that Lake County has now been designated as attainment at both the federal and state level for PM2.5. The permit has been revised as follows:

A.1 General Information [326 IAC 2-7-4(c)][326 IAC 2-7-5(14)][326 IAC 2-7-1(22)]

The Permittee owns and operates a stationary plate mill operation.

Source Address:	One North Broadway, Gary, Indiana 46402-3199
General Source Phone Number:	(219) 787-4973
SIC Code:	3399
County Location:	Lake
Source Location Status:	Nonattainment for PM2.5 standard Attainment for all other criteria pollutants
Source Status:	Part 70 Operating Permit Program Major Source, under PSD and Nonattainment NSR Rules Area Source, Section 112 of the Clean Air Act 1 of 28 Source Categories

Comment 2:

Condition D.1.1. This Condition contains a particulate matter limit of 0.03 grains per dry standard cubic foot for the following insignificant emission units: hand torch scarfer, slab cutting and deburring operation, coupon cutting operation, gantry burners, plasma cutter, bug burners, and welding and soldering equipment. However, none of the emissions from these insignificant emission units vent through a stack, nor could they reasonably be vented through a stack. Instead, any emissions from these fugitive emission sources would dissipate through the roof vent of the building in which they are located. Therefore, ArcelorMittal requests deletion of Condition D.1.1 in its entirety.

IDEM Response 2:

As discussed in the technical support document, the provisions of 326 IAC 6.8 are applicable to ArcelorMittal, LLC (Gary Plate). Pursuant to 326 IAC 6.8-1-2(a), particulate matter emissions from facilities, not limited by subsections (b), (e), (f), or (g) of 326 IAC 6.8-1-2, shall not exceed 0.03 grain per dry standard cubic foot. IDEM applies this rule to facilities with a potential to emit particulate matter emissions where the emissions could be reasonably passed through a stack, chimney, vent, or other functionally equivalent opening. Because the above listed emission sources are being conducted indoors and emissions are being routed through a roof vent, IDEM, OAQ applies the 326 IAC 6.8-1-2(a) emission limit to these facilities. The permit does not contain compliance determination or compliance monitoring requirements for these units. In order to certify compliance with Condition D.1.1, the Permittee could rely on work practice standards as well as visible emission monitoring of the roof vent exhaust. No change has been made to the permit as a result of this comment.

Comment 3:

Condition D.1.10(d). Subpart (d) of Condition D.1.11 requires ArcelorMittal Plate, LLC (Gary Plate) to maintain records of the daily visible emission notations for the Slab Grinder baghouse.

However, ArcelorMittal Plate, LLC (Gary Plate) has not operated the grinder since acquiring the facility and does not anticipate operating this unit on a daily basis once in use. ArcelorMittal appreciates IDEM's effort to address this issue by including the language that: *"If the emission unit is not in operation for an extended period of time, the Permittee may indicate that shutdown date and restart date in the log."* This language, however, is vague because "extended period of time" is undefined and the language does not clearly state that the visible emission records are not also required during this time period. Therefore, to address these issues, ArcelorMittal requests that this language be modified to read: ***"If the emission unit is not in operation for greater than 24 hours, the Permittee may indicate the idle date and restart date in the log in lieu of the once per day visible emission records."***

IDEM Response 3:

IDEM, OAQ agrees to make the requested change. The permit has been revised as follows:

D.1.10 Record Keeping Requirements

* * *

- (d) To document the compliance status with Condition D.1.9, the Permittee shall maintain records of the once per day visible emissions of the Slab Grinder baghouse (SPGrStk01). 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). If the emission unit is not in operation for **greater than twenty-four (24) hours** ~~an extended period of time~~, the Permittee may indicate **the idle date** ~~that shutdown date~~ and restart date in the log **in lieu of the once per day visible emission records**.

* * *

Comment 4:

Technical Support Document. ArcelorMittal requests any changes to the Draft TSD necessary to make the TSD consistent with the requested changes to the Public Comment Draft Part 70 Operating Permit Renewal proposed above.

IDEM Response 4:

As stated above, IDEM does not amend the Technical Support Document (TSD) because the TSD and amendments to the TSD are maintained to document the original review. No change has been made as a result of this comment.

Other Changes

Upon further review, the OAQ has decided to make the following revisions to the permit:

- (a) The rule citations for Section B - Preventive Maintenance Plan have been revised as appropriate.
- (b) IDEM, OAQ is further clarifying the citations for the state reasonable possibility definition in Section C - General Record Keeping Requirements and Section C - General Reporting Requirements as well as revising references to rule citations as revised on October 27, 2010 by the Indiana Air Pollution Control Board.

- (c) IDEM, OAQ has clarified the Permittee's responsibility with regards to record keeping in paragraph (a) of Section C - General Record Keeping Requirements.
- (d) IDEM, OAQ has clarified the interaction of the Quarterly Deviation and Compliance Monitoring Report and the Emergency Provisions. Section C - General Reporting Requirements and the Quarterly Deviation and Compliance Monitoring Report have been revised.

The permit has been revised as follows:

- B.10 Preventive Maintenance Plan [326 IAC 2-7-5(1),(3) and (12)]~~[326 IAC 2-7-6(1) and (6)]~~[326 IAC 1-6-3]
-

* * *

- 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. **Support information includes the following:**

- (AA) All calibration and maintenance records.**
- (BB) All original strip chart recordings for continuous monitoring instrumentation.**
- (CC) Copies of all reports required by the Part 70 permit.**

Records of required monitoring information include the following:

- (AA) The date, place, as defined in this permit, and time of sampling or measurements.**
- (BB) The dates analyses were performed.**
- (CC) The company or entity that performed the analyses.**
- (DD) The analytical techniques or methods used.**
- (EE) The results of such analyses.**
- (FF) The operating conditions as existing at the time of sampling or measurement.**

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) * * *

- (c) If there is a reasonable possibility (as defined in 326 IAC 2-2-8(b)(6)(A), **326 IAC 2-2-8(b)(6)(B)**, **326 IAC 2-3-2(I)(6)(A)**, and/or **326 IAC 2-3-2(I)(6)(B)**) that a “project” (as defined in 326 IAC 2-2-1(oo) and/or 326 IAC 2-3-1(jj)) 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(dd) and/or 326 IAC 2-3-1(y)) may result in significant emissions increase and the Permittee elects to utilize the “projected actual emissions” (as defined in 326 IAC 2-2-1(pp) and/or 326 IAC 2-3-1(kk)), the Permittee shall comply with following:

* * *

- (d) If there is a reasonable possibility (as defined in 326 IAC 2-2-8(b)(6)(A) and/or **326 IAC 2-3-2(I)(6)(A)**) that a “project” (as defined in 326 IAC 2-2-1(oo) and/or 326 IAC 2-3-1(jj)) 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(dd) and/or 326 IAC 2-3-1(y)) may result in significant emissions increase and the Permittee elects to utilize the “projected actual emissions” (as defined in 326 IAC 2-2-1(pp) and/or 326 IAC 2-3-1(kk)), the Permittee shall comply with following:

* * *

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. **Proper notice submittal under Section B - Emergency Provisions satisfies the reporting requirements of this paragraph.** 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 not later than thirty (30) days after the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include 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). A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

(b) * * *

(c) * * *

(d) * * *

- (e) If the Permittee is required to comply with the recordkeeping provisions of (d) in Section C - General Record Keeping Requirements for any “project” (as defined in 326 IAC 2-2-1(~~qqoo~~) and/or 326 IAC 2-3-1 (~~jj~~)) 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 (~~xxww~~) and/or 326 IAC 2-3-1 (~~eepp~~), for that regulated NSR pollutant, and

(2) * * *

(f) * * *

(g) * * *

* * * * *

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: ArcelorMittal Plate, LLC (Gary Plate)
Source Address: One North Broadway, Gary, Indiana 46402
Part 70 Permit No.: T089-29905-00118

Months: _____ to _____ Year: _____

This report shall be submitted quarterly based on a calendar year. **Proper notice submittal under Section B - Emergency Provisions satisfies the reporting requirements of paragraph (a) of Section C - General Reporting Requirements.** Any deviation from the requirements of this permit, 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".

Indiana Department of Environmental Management
Office of Air Quality

Technical Support Document (TSD) for a Part 70 Operating Permit Renewal

Source Background and Description

Source Name:	ArcelorMittal Plate, LLC (Gary Plate)
Source Location:	1 N Broadway, Gary, Indiana 46402
County:	Lake
SIC Code:	3399
Permit Renewal No.:	T089-29905-00118
Permit Reviewer:	Laura Spriggs

The Office of Air Quality (OAQ) has reviewed the operating permit renewal application from ArcelorMittal Plate, LLC (Gary Plate) relating to the operation of a stationary plate mill operation. On November 19, 2010, ArcelorMittal Plate, LLC (Gary Plate) submitted an application to the OAQ requesting to renew its operating permit. ArcelorMittal Plate, LLC (Gary Plate) was issued Part 70 Operating Permit No. T089-19192-00118 on August 18, 2006.

Source Definition

Source History

On November 1, 2003, ownership of the operating facilities at the former Plate Products Division of United States Steel Corporation-Gary Works (USS) located at One North Broadway in Gary, Indiana was transferred to ISG Corporation to create a new stationary source. The Plate Mill operation has been removed from the USS Part 70 Operating Permit. The facility was thereafter renamed ISG Burn Harbor Plate, LLC. On July 7, 2005, ISG submitted a GSD01 to change the name to ISG Burns Harbor LLC (Gary Plate). In 2005 Mittal Steel USA completed the acquisition of ISG Corporation including ISG Burns Harbor LLC (Gary Plate).

A Part 70 Operating Permit was issued to ISG Burns Harbor LLC (Gary Plate) (T089-19192-00118) on August 18, 2006. On October 23, 2007, a permit application was submitted to change the name to ArcelorMittal Plate, LLC (Gary Plate)

Source Determination: ArcelorMittal Burns Harbor (127-00001)

ArcelorMittal is the sole owner of ArcelorMittal Burns Harbor (127-00001) and ArcelorMittal, LLC (Gary Plate). Slab and plate steel are sent from the Burns Harbor mill to the Gary Plate plant for processing. The Gary Plate plant does rolling, heating treating, testing, trimming and other processes before sending the steel on to customers or returning the steel to Burns Harbor. IDEM, OAQ has examined whether these two plants are part of the same major source. The term "major source" is defined at 326 IAC 2-7-1(22). In order for these plants to be considered one major source, they must meet all three of the following criteria:

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

The plants are owned by ArcelorMittal and are all under the common control of ArcelorMittal. Since common ownership and common control exists, the first part of the definition of major source is met.

Both plants have the two-digit SIC code 33, for Major Group 33: Primary Metal Industries. A plant is a support facility to another plant if it dedicates 50% or more of its output to the other plant. Less than 15 percent of Burns Harbor's production is sent to the Gary Plate plant. About 10 percent of the steel processed at the Gary Plate plant is returned to Burns Harbor. Neither plant serves as a support facility for the other. Since the plants have the same two-digit SIC Code, even though neither is a support facility to the other, they meet the second part of the major source definition.

The last part of the definition is whether the plants are on contiguous or adjacent properties. The plants are located on separate properties that do not share any common boundary. Since they are not on contiguous properties IDEM examined whether the plants are on adjacent properties.

The term "adjacent" is not defined in Indiana's air permitting rules. IDEM, OAQ has located a May 21, 1988 letter from U.S. EPA Region VIII to the Utah Division of Air Quality regarding the term "adjacent". This letter is in no way binding on IDEM, OAQ, but it is persuasive. Region VIII stated that any evaluation of what is "adjacent" must relate to the guiding principal of a common sense notion of "source". The evaluation should look at whether the distance between the plants is sufficiently small that it enables them to operate as a single source. Some sample questions are:

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

Steel is routinely transferred from Burns Harbor to Gary Plate. Gary Plate also sends its scrap steel to Burns Harbor. Gary Plate sends about 90 percent of its product directly to the customer and about 10 percent of finished product is sent to Burns Harbor. The two plants do not share production staff and they do not share plant managers. The only times when workers at one plant might work at the other is when a unit at one of the plants is not operating, due to a maintenance outage or other cause. The plants have separate shipping staff, separate security services and separate fire fighting services. The two plants are located on properties that are approximately fifteen miles apart. Materials are transferred over public roads or by rail using third party rail carriers. There are no dedicated roads, pipelines or rail spurs that connect the two plants. The two plants are not close enough to enable them to operate as a single source. Therefore, the two plants are not adjacent. Since the two plants are not contiguous or adjacent, they do not meet the third element of the major source definition.

Since the Burns Harbor mill and the Gary Plate plant do not meet all three of the parts of the major source definition, IDEM, OAQ finds that the two plants are not part of the same major source.

Source Determination: US Steel - Gary Works (089-00121)

As indicated in the source determination above, three criteria must be met in order for two sources to be determined to be one major source. While US Steel - Gary Works (089-00121) and ArcelorMittal Plate, LLC (Gary Plate) are located on contiguous property and share the two-digit SIC code of 33, the two sources are not under common ownership or control and there is no transfer of material between the two sources. Therefore, ArcelorMittal, LLC (Gary Plate) is considered a separate source from US Steel - Gary Works.

Permitted Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units:

One (1) Plate Mill Operation with an estimated maximum capacity of one (1) million tons per year, consisting of the following emission units:

(a) Plate Mill Slab Prep Facility

- (1) Three (3) Slow Cool Furnaces (Nos. 1-3), identified as ID #s 1, 2 and 3, installed in 1992, having a natural gas heat input of 16 MMBtu per hour each, exhausting through Roof Monitor SPRm1.
- (2) One (1) Slab Grinder, identified as ID #8, installed in 1985, having an estimated capacity of 264,000 tons per year, ducted to the Slab Grinder Baghouse, exhausting through Stack SPGrStk 01.

(b) Rolling Mill Operations

- (1) Two (2) natural gas-fired Continuous Reheat Furnaces (Nos. 1 and 2), identified as ID #s 9 and 10, installed in 1961, having an estimated heat input capacity of 300 MMBtu per hour each, exhausting through Stacks PMCFStk01, PMCFStk02 and Roof Monitor PMRm1.
- (2) Four (4) natural gas-fired Batch Reheat Furnaces (Nos. 5-8), identified as ID #s 11-14, installed in 1961, having an estimated maximum heat input capacity of 40 MMBtu per hour each, exhausting through the Roof Monitor PMRm1, Stack PMBReHStk6, Roof Monitor PMRm1, and Stack PMBReHStk8, respectively.
- (3) One (1) natural gas-fired Car Bottom Normalizing Furnace, identified as ID #21, installed in 1961, having an estimated maximum heat input capacity of 26 MMBtu per hour, exhausting through Roof Monitor PMRm1.
- (4) Two (2) natural gas-fired Slow Cool Furnaces (Nos. 1 and 2), identified as ID #s 22 and 23, installed in 1991, having an estimated maximum heat input capacity of 32 MMBTU per hour each, exhausting through Roof Monitor PMRm1.
- (5) One (1) Rolling Mill, with a series of stands and rollers for changing the shape of the final steel product, with a maximum capacity of 1,000,000 tons per year, including the following emission units:
 - (A) One (1) Hand Torch Scarfer, identified as ID #6, using natural gas combustion with a maximum heat input capacity of 1.0 MMBtu/hr, exhausting through roof monitor.
 - (B) One (1) Reversing Mill, identified as ID #15, exhausting inside the building.

(c) Heat Treat Operations

- (1) One (1) natural gas-fired Plate Mill Heat Treatment Furnace (LOI), identified as ID #28, installed in 1997, with an estimated maximum heat input capacity of 56.5 MMBtu per hour, exhausting to a Stack PMHTStk1.

- (2) Two (2) natural gas-fired Hardening Furnaces, identified as North Hardening Furnace (ID #24 installed in 1969) and South Hardening Furnace (ID #26 installed in 1962), having an estimated heat input capacity of 100 MMBtu per hour each, exhausting through Roof Monitor PMRm1.
- (3) Two (2) natural gas-fired Tempering Furnaces, identified as North Tempering Furnace (ID #25 installed in 1969) and South Tempering Furnace (ID #27 installed in 1962), having an estimated maximum heat input capacity of 100 MMBtu per hour each, exhausting through Roof Monitor PMRm1.

Emission Units and Pollution Control Equipment Removed From the Source

The source has removed the following emission units:

One (1) natural gas-fired Car Bottom Heat Treating Furnace, identified as ID #20, installed in 1961, with an estimated maximum heat input capacity of 26 MMBtu per hour, exhausting through Roof Monitor PMRm1.

Insignificant Activities

The source also consists of the following insignificant activities:

- (a) Insignificant emission units in the Plate Mill Slab Prep Area:
 - (1) One (1) Slab Cutting and Debur Operation, identified as ID #4, using natural gas combustion with a maximum heat input capacity of 5.0 MMBtu/hr. [326 IAC 6.8-1-2]
 - (2) Slab Marking, identified as ID #5.
 - (3) Five (5) (Nos.1 through 5) Stress Hood Furnaces, identified as ID #7, with a total heat input capacity of 30.0 MMBtu/hr.
- (b) Insignificant emission units in the Rolling Mill Area:
 - (1) Hand Ink Stenciling, identified as ID #16.
 - (2) Cold Ink Marking Unit, identified as ID #17.
 - (3) Coupon Cutting, identified as ID #18. [326 IAC 6.8-1-2]
 - (4) Four (4) Gantry Burners for plate cutting, identified as ID #19, each with a maximum heat input capacity of 0.5 MMBtu/hr, exhausting through roof monitor. [326 IAC 6.8-1-2]
- (c) Insignificant emission units in the Heat Treat Area:
 - (1) Magnemag Cold Ink Marking Units #1 and #2, identified as ID #s 29 and 30.
 - (2) One (1) Plasma Cutter for sample coupon cutting, identified as ID #32. [326 IAC 6.8-1-2]

(d) Other Insignificant emission units:

- (1) Eleven (11) natural gas fired bug burners, identified as ID #31, used throughout the facility as needed, each with a maximum heat input capacity of 0.11 MMBtu/hr. [326 IAC 6.8-1-2]
- (2) Solvent parts washers, including cold cleaner degreasing units without remote solvent reservoirs, identified as ID #33, using a total maximum of 42 gallons per day of solvent. [326 IAC 8-3-2] [326 IAC 8-3-5] [326 IAC 8-3-8] [326 IAC 8-9]
- (3) The following equipment related to manufacturing activities not resulting in the emission of HAPs: welding and soldering equipment. [326 IAC 6.8-1-2]
- (4) Multiple natural gas-fired space heaters, with heat inputs ranging from 0.85 MMBtu/hr to 1.5 MMBtu/hr.
- (5) A petroleum fuel, other than gasoline, dispensing facility, having a storage tank capacity less than or equal to ten thousand five hundred (10,500) gallons, and dispensing three thousand five hundred (3,500) gallons per day or less.
- (6) Vessels storing hydraulic oils and lubricating oils.
- (7) Water-based quenching operations used with heat treating processes.
- (8) Paved and unpaved roads and areas. [326 IAC 6-4] [326 IAC 6.8-10]

Existing Approvals

Since the issuance of the Part 70 Operating Permit (T089-19192-00118) on August 18, 2006, the source has constructed or has been operating under the following additional approvals:

Administrative Amendment No. 089-25541-00118, issued on December 26, 2007.

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.

Enforcement Issue

IDEM is aware that the solvent parts washers were not included in the previous permits for ArcelorMittal Plate, LLC (Gary Plate). While these units are insignificant activities, they have applicable requirements pursuant to 326 IAC 8-3-2, 326 IAC 8-3-5, 326 IAC 8-3-8, and 326 IAC 8-9, which should have been incorporated into the permit. IDEM is reviewing this matter and will take appropriate action.

Emission Calculations

See Appendix A of this document for detailed emission calculations.

County Attainment Status

The source is located in Lake County.

Pollutant	Designation
SO ₂	Better than national standards.
CO	Attainment effective February 18, 2000, for the part of the city of East Chicago bounded by Columbus Drive on the north; the Indiana Harbor Canal on the west; 148 th Street, if extended, on the south; and Euclid Avenue on the east. Unclassifiable or attainment effective November 15, 1990, for the remainder of East Chicago and Lake County.
O ₃	Attainment effective June 4, 2010. ¹
PM ₁₀	Attainment effective March 11, 2003, for the cities of East Chicago, Hammond, Whiting, and Gary. Unclassifiable effective November 15, 1990, for the remainder of Lake County.
NO ₂	Cannot be classified or better than national standards.
Pb	Not designated.
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 Lake County are no longer subject to review pursuant to Emission Offset, 326 IAC 2-3. Basic nonattainment designation effective federally April 5, 2005, for PM _{2.5} .	

- (a) **Ozone Standards**
 Volatile organic compounds (VOC) and Nitrogen Oxides (NO_x) 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 NO_x emissions are considered when evaluating the rule applicability relating to ozone. Lake County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO_x emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

- (b) **PM_{2.5}**
 U.S. EPA, in the Federal Register Notice 70 FR 943 dated January 5, 2005, has designated Lake 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 SO₂ 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**
 Marion County has been classified as attainment or unclassifiable in Indiana for SO₂, CO, PM₁₀, NO₂, and lead. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

Fugitive Emissions

Since this source is classified as a steel mill, it is considered 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, Nonattainment NSR, and Part 70 Permit applicability.

Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions of the source.

Unrestricted Potential Emissions	
Pollutant	Tons/year
PM	Less than 100
PM ₁₀	Less than 100
PM _{2.5}	Less than 100
SO ₂	Less than 100
VOC	Greater than 100
CO	Greater than 100
NO _x	Greater than 100
GHGs	Greater than 100,000
Single HAP (hexane)	Greater than 10
Total HAP	Less than 25

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of VOC, CO, and NO_x 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.
- (b) The potential to emit (as defined in 326 IAC 2-7-1(29)) of GHGs is equal to or greater than one hundred thousand (100,000) tons of CO₂ equivalent (CO₂e) emissions 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.
- (c) While the potential to emit (as defined in 326 IAC 2-7-1(29)) of a single HAP is equal to or greater than ten (10) tons per year, the Permittee has agreed to take limits to limit the potential to emit of hexane to less than ten (10) tons per year. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA).

Part 70 Permit Conditions

This source is subject to the requirements of 326 IAC 2-7, because the source met the following:

- (a) Emission limitations and standards, including those operational requirements and limitations that assure compliance with all applicable requirements at the time of issuance of Part 70 permits.
- (b) Monitoring and related record keeping requirements which assume that all reasonable information is provided to evaluate continuous compliance with the applicable requirements.

Process/ Emission Unit	Potential To Emit of the Entire Source After Issuance of Renewal (tons/year)									
	PM	PM ₁₀	PM _{2.5} ¹	SO ₂	NO _x	VOC	CO	GHGs	Total HAPs	Worst Single HAP
South Hardening Furnace (ID #26)	**	**	**	**	**	**	**	**	**	** (hexane)
North Tempering Furnace (ID #25)	**	**	**	**	**	**	**	**	**	** (hexane)
South Tempering Furnace (ID #27)	**	**	**	**	**	**	**	**	**	** (hexane)
Insignificant Activities										
Slab Cutting and Debur Operations (ID #4)	3.72 *** **	3.72 *** **	3.72 *** **	**	**	**	**	**	0.10 *** **	0.06 (Mn)
Slab Marking ID (ID #5)	--	--	--	--	--	2.42	--	--	--	--
Stress Hood Furnaces (ID #7)	**	**	**	**	**	**	**	**	**	** (hexane)
Hand Ink Stenciling (ID #16)	--	--	--	--	--	1.94	--	--	--	--
Cold Ink Marking Unit (ID #17)	--	--	--	--	--	0.69	--	--	0.14	0.14 (xylene)
Coupon Cutting (ID #18)	0.12	0.12	0.12	--	--	--	--	--	0.003	0.002 (Mn)
4 Gantry Burners (ID #19)	3.60 *** **	3.60 *** **	3.60 *** **	**	**	**	**	**	0.10 *** **	0.05 (Mn)
Magnemag Cold Ink Marking Unit No. 1 (ID #29)	--	--	--	--	--	0.23	--	--	0.05	0.05 (xylene)
Magnemag Cold Ink Marking Unit No. 2 (ID #30)	--	--	--	--	--	0.46	--	--	0.09	0.09 (xylene)
Plasma Cutter (ID #32)	0.13	0.13	0.13	--	--	--	--	--	0.003	0.002 (Mn)
11 Bug Burners (ID #31)	2.93 *** **	2.93 *** **	2.93 *** **	**	**	**	**	**	0.08 *** **	0.04 (Mn)
Solvent Parts Washers (ID #33)	--	--	--	--	--	52.12	--	--	--	--
Welding and Soldering Equipment	+	+	+	--	--	--	--	+	+	+
Natural Gas-Fired Space Heaters	**	**	**	**	**	**	**	**	**	** (hexane)
Fugitive Emissions	++	++	++	--	--	--	--	--	--	--
Source-wide Natural Gas Usage Limit**	10.45	41.80	41.80	3.30	981.75	30.25	462.00	661356.9	10.38	9.90 (hexane)
Total PTE of Entire Source+++	31.89	57.89	57.89	3.30	981.75	98.12	462.0	661356.9	11.11	9.90 (hexane)
PSD Major Source Thresholds	100	100	N/A	100	100	100	100	100,000 CO ₂ e	N/A	N/A
Nonattainment NSR Major Source Thresholds	N/A	N/A	100	100	N/A	N/A	N/A	N/A	N/A	N/A

Process/ Emission Unit	Potential To Emit of the Entire Source After Issuance of Renewal (tons/year)									
	PM	PM ₁₀	PM _{2.5} ¹	SO ₂	NO _x	VOC	CO	GHGs	Total HAPs	Worst Single HAP
¹ PM _{2.5} listed is direct PM _{2.5} . *Natural gas usage for ID #s 1-3, 22, and 23 combined shall not exceed 779 MMCF per twelve (12) consecutive month period. **Site-wide natural gas usage for all combustion units shall be less than 11,000 MMCF per twelve (12) consecutive month period. ***Natural gas input to ID #28 shall be limited to 279.2 MMCF per year. ****Emissions shown are process emissions only. Natural gas emissions are included in source-wide natural gas usage limit. +Emissions not estimated. They are assumed to be negligible and will not affect the source status. ++Fugitive emissions were not estimated. The source is subject to 326 IAC 6.8-10 and the emissions are not expected to affect the source status. +++The total does not include limited combustion emissions from ID #s 1-3, 22, 23, and 28 (see * and ***). It only includes the source-wide limited combustion emissions (**).										

- (a) This existing stationary source is major for PSD because the emissions of at least one criteria pollutant are greater than one hundred (>100) tons per year, emissions of GHGs are equal to or greater than one hundred thousand (>100,000) tons of CO₂ equivalent (CO₂e) emissions per year, and it is in one of the twenty-eight (28) listed source categories.
- (b) This existing stationary source is not major for Emission Offset and Nonattainment NSR because the emissions of the nonattainment pollutant, PM_{2.5}, are less than one hundred (<100) tons per year.

Federal Rule Applicability

Compliance Assurance Monitoring (CAM)

- (a) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is applicable to each existing pollutant-specific emission unit that meets the following criteria:
 - (1) 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.

The following table is used to identify the applicability of each of the criteria, under 40 CFR 64.1, to each existing emission unit and specified pollutant subject to CAM:

Emission Unit / Pollutant	Control Device Used	Emission Limitation or Standard (Y/N)	Uncontrolled PTE (tons/year)	Controlled PTE (tons/year)	Major Source Threshold (tons/year)	CAM Applicable (Y/N)	Large Unit (Y/N)
Slab Grinder (ID #8) - PM10	BH	Y	0.59	0.01	100	N	N

Based on this evaluation, the requirements of 40 CFR Part 64, CAM are not applicable to any of the existing units as part of this Part 70 permit renewal.

New Source Performance Standards (NSPS)

- (b) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in the permit for this source.

National Emission Standards for Hazardous Air Pollutants (NESHAP)

- (c) *40 CFR 63.460, Subpart T: National Emission Standards for Halogenated Solvent Cleaning*
The solvent parts washers (ID #33) at ArcelorMittal Plate, LLC (Gary Plate) are not subject to the provisions of 40 CFR 63, Subpart T because they do not use solvent that contains the halogenated HAPs listed in 40 CFR 63.460(a).
- (d) *40 CFR 63.3880, Subpart MMMM: National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products*
The coating operations (ID #s 5, 16, 17, 29, and 30) are not subject to the provisions of 40 CFR 63, Subpart MMMM because ArcelorMittal Plate, LLC (Gary Plate) is not a major source of HAPs.
- (e) *40 CFR 63.7780, Subpart FFFFF: National Emission Standards for Hazardous Air Pollutants for Integrated Iron and Steel Manufacturing Facilities*
The operations at ArcelorMittal Plate, LLC (Gary Plate) are not subject to the provisions of 40 CFR 63, Subpart FFFFF because they do not meet the definition of an integrated iron and steel manufacturing facility because steel is not produced from iron ore as part of the operations. Additionally, the source is not a major source of HAPs.
- (f) *40 CFR 63.11169, Subpart HHHHHH: National Emission Standards for Hazardous Air Pollutants: Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources*
The coating operations (ID #s 5, 16, 17, 29, and 30) are not subject to the provisions of 40 CFR 63, Subpart HHHHHH because the coatings do not contain any target HAPs (chromium, lead, manganese, nickel, or cadmium).
- (g) *40 CFR 63.11193, Subpart JJJJJJ: National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources*
The provisions of 40 CFR 63, Subpart JJJJJJ are not included in the permit for ArcelorMittal Plate, LLC (Gary Plate) because the source does not operate any boilers.
- (h) *40 CFR 63.11514, Subpart XXXXXX: National Emission Standards for Hazardous Air Pollutants Area Source Standards for Nine Metal Fabrication and Finishing Source Categories*
The provisions of 40 CFR 63, Subpart XXXXXX are not included in the permit for ArcelorMittal Plate, LLC (Gary Plate) because the SIC/NAICS code combination used to describe this facility's primary activities is not one of those specifically listed at 40 CFR 63.11514 or in Table 1 of 40 CFR 63, Subpart XXXXXX.

State Rule Applicability - Entire Source

326 IAC 1-6-3 (Preventive Maintenance Plan)

The source is subject to 326 IAC 1-6-3.

326 IAC 1-5-2 (Emergency Reduction Plans)

The source is subject to 326 IAC 1-5-2.

326 IAC 2-2 (Prevention of Significant Deterioration), 326 IAC 2-3 (Emission Offset), 326 IAC 2-1.1-5 (Nonattainment New Source Review)

The units at ArcelorMittal Plate, LLC (Gary Plate) were previously part of the US Steel - Gary Works source (ID 089-00121), but ownership of the plate products division was transferred to the ISG Corporation in 2003 and the operations became a separate source and a separate Part 70 Operating Permit was issued. At the time the Part 70 Operating Permit was issued in 2006, the source was considered an existing major source under PSD (326 IAC 2-2) because it had the potential to emit of greater than 100 tons per year for at least one regulated air pollutant and it is one of twenty-eight listed source categories. The source was considered an existing major source for Emission Offset (326 IAC 2-3) because the potential to emit of VOC exceeded 25 tons per year. Currently the source is considered a major source under PSD (326 IAC 2-2) because the potential to emit of NO_x, VOC, and CO exceeds 100 tons per year each and the source is one (1) of twenty-eight (28) listed source categories. No projects have been conducted since the issuance of the initial Part 70 Operating Permit; however, synthetic minor limits from previous permitting actions have been maintained as described below.

- (a) The total natural gas usage for the five (5) Slow Cool Furnaces (ID #s 1-3, 22, and 23, installed in 1991 and 1992) combined shall not exceed 779 million cubic feet per twelve (12) consecutive month period, with compliance determined at the end of each month. Compliance with this limit shall limit the potential to emit of NO_x from the project to less than forty (40) tons per twelve (12) consecutive month period and render 326 IAC 2-2 (PSD) and 326 IAC 2-3 (Emission Offsets) not applicable.
- (b) Pursuant to Construction Permit 089-14988-00121, issued July 19, 2002 to US Steel - Gary Works, the total natural gas usage for the Heat Treatment Furnace (ID #28), shall be limited to 279.2 million cubic feet per twelve (12) consecutive month period, with compliance determined at the end of each month. Compliance with this limit shall limit the potential to emit of NO_x from the project to less than forty (40) tons per twelve (12) consecutive month period and render 326 IAC 2-2 (PSD) and 326 IAC 2-3 (Emission Offsets) not applicable.

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

The Permittee has not constructed or reconstructed a major source of HAP after July 27, 1997; therefore, the provisions of 326 IAC 2-4.1 are not applicable to any units at ArcelorMittal Plate, LLC (Gary Plate). The Permittee has agreed, however, to limit the sourcewide natural gas usage to less than 11,000 million cubic feet per twelve (12) consecutive month period, with compliance determined at the end of each month. Compliance with this limit shall limit the potential to emit of hexane to less than ten (10) tons per year. The unrestricted potential to emit of total HAPs is less than twenty-five (25) tons per year. Therefore, this source is an area source under 40 CFR Part 63.

326 IAC 2-6 (Emission Reporting)

This source is subject to 326 IAC 2-6 (Emission Reporting) because it is located in Lake County and its emissions of VOC and NO_x are greater than 25 tons per year. Therefore, pursuant to 326 IAC 2-6-3(a)(1), annual reporting is required. An emission statement shall be submitted by July 1, 2012, and every year thereafter. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4.

326 IAC 5-1 (Opacity Limitations)

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

- (a) Opacity shall not exceed an average of twenty percent (20%) any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

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

326 IAC 6-4 (Fugitive Dust Emissions)

Pursuant to 326 IAC 6-4-2, a source generating fugitive dust shall be in violation if any of the following criteria are violated:

- (a) A source or combination of sources which cause to exist fugitive dust concentrations greater than sixty-seven percent (67%) in excess of ambient upwind concentrations as determined by the following formula:

$$P = \frac{100 * (R - U)}{U}$$

Where

P = Percentage increase

R = Number of particles of fugitive dust measured at downward receptor site

U = Number of particles of fugitive dust measured at upwind or background site

- (b) The fugitive dust is comprised of fifty percent (50%) or more respirable dust, then the percent increase of dust concentration in (1) above shall be modified as follows:

$$P_R = (1.5 \pm N) * P$$

Where

N = Fraction of fugitive dust that is respirable dust

P_R = allowable percentage increase in dust concentration above background

P = no value greater than sixty-seven percent (67%)

- (c) The ground level ambient air concentrations exceed fifty (50) micrograms per cubic meter above background concentrations for a sixty (60) minute period.
- (d) If fugitive dust is visible crossing the boundary or property line of a source. This subdivision may be refuted by factual data expressed in subdivisions (1), (2) or (3) of this section. 326 IAC 6-4-2(4) is not federally enforceable.

326 IAC 6.8 (PM Limitations for Lake County)

ArcelorMittal Plate, LLC (Gary Plate) is subject to 326 IAC 6.8 because it is located in Lake County, its potential to emit of PM is greater than 10 tons per year. This source also has facilities that are specifically listed in 326 IAC 6.8-2-38 from when they were owned by US Steel - Gary Works. Emission limits for specific units are discussed in the next section of this technical support document.

326 IAC 6.8-8 (Lake County: Continuous Compliance Plan)

Pursuant to 326 IAC 6.8-8(18)(B), the Permittee is subject to the requirements of 326 IAC 6.8-8 because there are facilities performing manufacturing operations in a building or structure such that the total uncontrolled PM10 emissions from all such operations amount to ten (10) tons per year or more that could potentially escape into the atmosphere through roof vents and other openings. Additionally, the Permittee has facilities specifically listed in 326 IAC 6.8-2.

- (a) Pursuant to 326 IAC 326 IAC 6.8-8-1, the Permittee shall submit to IDEM and maintain at source a copy of the Continuous Compliance Plan (CCP). The Permittee shall perform the inspections, monitoring and record keeping in accordance with the information in 326 IAC 6.8-8-5 through 326 IAC 6.8-8-7 or applicable procedures in the CCP.

- (b) Pursuant to 326 IAC 6.8-8-8, the Permittee shall update the CCP, as needed, retain a copy of any changes and updates to the CCP at the source and make the updated CCP available for inspection by the department. The Permittee shall submit the updated CCP, if required to IDEM, OAQ within thirty (30) days of the update.
- (c) Pursuant to 326 IAC 6.8-8-8(d), failure to submit a CCP, maintain all information required by the CCP at the source, or submit a required update to a CCP is a violation of 326 IAC 6.8-8.

326 IAC 6.8-10 (Lake County: Fugitive Particulate Matter)

The Permittee's operations are located on property owned by US Steel Corporation (Gary Works). The sources of fugitive particulate matter emissions at the facility are primarily from paved and unpaved roads/areas. Pursuant to 326 IAC 6.8-10-3 (formerly 326 IAC 6-1-11.1) (Lake County Fugitive Particulate Matter Control Requirements), the particulate matter emissions from source wide activities shall meet the following requirements as applicable:

- (a) The average instantaneous opacity of fugitive particulate emissions from a paved road shall not exceed ten percent (10%).
- (b) The average instantaneous opacity of fugitive particulate emissions from an unpaved road shall not exceed ten percent (10%).
- (c) The opacity of fugitive particulate emissions from exposed areas shall not exceed ten percent (10%) on a six (6) minute average.
- (d) The opacity of fugitive particulate emissions from continuous transfer of material onto and out of storage piles shall not exceed ten percent (10%) on a three (3) minute average.
- (e) The opacity of fugitive particulate emissions from storage piles shall not exceed ten percent (10%) on a six (6) minute average.
- (f) There shall be a zero (0) percent frequency of visible emission observations of a material during the inplant transportation of material by truck or rail at any time.
- (g) The opacity of fugitive particulate emissions from the inplant transportation of material by front end loaders and skip hoists shall not exceed ten percent (10%).
- (h) Material processing facilities shall include the following:
 - (1) There shall be a zero (0) percent frequency of visible emission observations from a building enclosing all or part of the material processing equipment, except from a vent in the building.
 - (2) The PM₁₀ emissions from building vents shall not exceed twenty-two thousandths (0.022) grains per dry standard cubic foot and ten percent (10%) opacity.

- (3) The PM₁₀ stack emissions from a material processing facility shall not exceed twenty-two thousandths (0.022) grains per dry standard cubic foot and ten percent (10%) opacity.
- (4) The opacity of fugitive particulate emissions from the material processing facilities, except a crusher at which a capture system is not used, shall not exceed ten percent (10%) opacity.
- (5) The opacity of fugitive particulate emissions from a crusher at which a capture system is not used shall not exceed fifteen percent (15%).
- (i) The opacity of particulate emissions from dust handling equipment shall not exceed ten percent (10%).
- (j) Material transfer limits shall be as follows:
 - (1) The average instantaneous opacity of fugitive particulate emissions from batch transfer shall not exceed ten percent (10%).
 - (2) Where adequate wetting of the material for fugitive particulate emissions control is prohibitive to further processing or reuse of the material, the opacity shall not exceed ten percent (10%), three (3) minute average.
- (k) Any facility or operation not specified in 326 IAC 6.8-10-3 shall meet a twenty percent (20%), three (3) minute average opacity standard.

The Permittee shall achieve these limits by controlling fugitive particulate matter emissions according to the Fugitive Dust Control Plan included as Attachment A to the permit.

326 IAC 6.8-11 (Particulate Matter Contingency Measures)

The Permittee is subject to 326 IAC 6.8-11 (Lake County Particulate Matter Contingency Measures) and shall comply with 326 IAC 6.8-11-4, 326 IAC 6.8-11-5 and 326 IAC 6.8-11-6 (formerly 326 IAC 6-1-11.2(h), (i), (k), (l), (m), (o), (p) and (q) (Lake County Particulate Matter Contingency Measures) as required.

State Rule Applicability – Individual Facilities

326 IAC 6.8-1 (Lake County: Particulate Emission Limitations)

- (a) Pursuant to 326 IAC 6.8-2-1(d), particulate limitations shall not be established for combustion units that can burn only natural gas as long as the units continue to burn only natural gas. The Permittee has indicated that they only use natural gas and has agreed to accept a permit condition to render 326 IAC 6.8-1 not applicable to the natural gas combustion units:

The Permittee shall only burn natural gas in the following units: Slow Cool Furnaces Nos. 1-3 (ID #s 1-3), Batch Reheat Furnaces Nos. 5 and 7 (ID #s 11 and 13), Car Bottom Normalizing Furnace (ID #21), Slow Cool Furnaces Nos. 1 and 2 (ID #s 22 and 23), North Hardening Furnace (ID #24), South Hardening Furnace (ID #26), North Tempering

Furnace (ID #25), South Tempering Furnace (ID #27), stress hood furnaces (ID #7), and space heaters.

Compliance with the above limit shall render the requirements of 326 IAC 6.8-1-2 not applicable for the above listed units.

- (b) Pursuant to 326 IAC 6.8-1-2(a), particulate matter emissions from the hand torch scarfer (ID #6), the slab cutting and debur operation (ID #4), the coupon cutting operation (ID #18), the gantry burners (ID #19), the plasma cutter (ID #32), the bug burners (ID #31), and the welding and soldering equipment shall not exceed 0.03 grain per dry standard cubic foot each.

IDEM believes that the permit, as written, will allow for the Permittee to comply with these applicable emission limitations. No compliance monitoring or determination requirements will be included in the permit for these units.

326 IAC 6.8-2 (Lake County: PM10 Emission Requirements)

Pursuant to 326 IAC 6.8-2-38, PM10 emission limits were established for certain facilities that were previously part of the US Steel - Gary Works source, but that are now part of the ArcelorMittal Plate, LLC (Gary Plate) source as follows:

- (a) PM10 emissions from the Plate Mill Continuous Reheat Furnaces Nos. 1 and 2 (ID #s 9 and 10) shall not exceed 0.009 lb/MMBtu each and 3.72 lb/hr total.
- (b) PM10 emissions from the Plate Mill Batch Reheat Furnaces Nos. 6 and 8 (ID #s 12 and 14) shall not exceed 0.009 lb/MMBtu each and 0.070 lb/hr total.
- (c) PM10 emissions from the Slab Grinder baghouse (ID #8) shall not exceed 0.0100 gr/dscf and 2.57 lb/hr.
- (d) PM10 emissions from the Plate Mill Heat Treatment Furnace (ID #28) shall not exceed 0.003 gr/dscf and 0.096 lb/hr.

The limits in (a), (b), and (d) were originally included in the SIP for when these units were part of the U.S. Steel operations and had the capability of combusting coke oven gas. Now that these units are part of the ArcelorMittal Plate, LLC (Gary Plate) operation, they do not have access to combust coke oven gas and only combust natural gas. Pursuant to 326 IAC 6.8-2-1(d), particulate limitations shall not be established for combustion units that burn only natural gas at sources or facilities identified in article 326 IAC 6.8, as long as the units continue to burn only natural gas. Therefore, the Permittee shall combust only natural gas in the Continuous Reheat Furnaces Nos. 1 and 2 (ID #s 9 and 10), the Plate Mill Batch Reheat Furnaces Nos. 6 and 8 (ID #s 12 and 14), and the Plate Mill Heat Treatment Furnace (LOI) (ID #28). By combusting only natural gas, the emission limitations in paragraphs (a), (b), and (d) above are not applicable.

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

- (a) Pursuant to 326 IAC 6-3-1(b)(14), 326 IAC 6-3 does not apply to manufacturing processes with potential emissions less than 0.551 pound per hour. Therefore, the following units are not subject to 326 IAC 6-3: Slow Cool Furnaces (ID #s 1-3), Stress Hood Furnaces (ID #7), Batch Reheat Furnaces (ID #s 11 and 13), Car Bottom Normalizing Furnace (ID #21), Slow Cool Furnaces (ID #s 22 and 23), North Hardening and Tempering Furnaces (ID #s 24 and 25), South Hardening and Tempering Furnaces (ID #s 26 and 27).
- (b) There are more stringent particulate limitations established in 326 IAC 6.8 than would be in 326 IAC 6-3 for the Continuous Reheat Furnaces (ID #s 9 and 10), the Batch Reheat Furnaces (ID #s 12 and 14), the slab grinder (ID #8), the Plate Mill Heat Treatment

Furnace (ID #28), the hand torch scarfer (ID #6), the slab cutting and debur operation (ID #4), the coupon cutting (ID #18), the gantry burners (ID #19), the plasma cutter (ID #32), the bug burners (ID #31), and the welding and soldering equipment. Therefore, pursuant to 326 IAC 6-3-1(c)(3), 326 IAC 6-3 does not apply to these units.

- (c) The space heaters are not manufacturing operations; therefore, the requirements of 326 IAC 6-3 are not applicable to them.
- (d) The label, stenciling, and marking activities (ID #s 5, 16, 17, 29, and 30) do not generate particulate (the transfer efficiency is 100%); therefore, they are not subject to the provisions of 326 IAC 6-3.

326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations)

The provisions of 326 IAC 7-1.1 are not applicable to any units at ArcelorMittal Plate, LLC (Gary Plate) because no units have the potential to emit twenty-five (25) tons per year or ten (10) pounds per hour or greater of sulfur dioxide.

326 IAC 7-4.1 (Lake County Sulfur Dioxide Emission Limitations)

Pursuant to 326 IAC 7-4.1-1, all new and existing fossil fuel-fired combustion sources and emissions units subject to 326 IAC 7-1.1 located in Lake County shall burn natural gas only unless an alternate sulfur dioxide emission limit is provided in this rule. No units at ArcelorMittal Plate, LLC (Gary Plate) are subject to 326 IAC 7-1.1 and there are no limits specific to the units at ArcelorMittal Plate, LLC (Gary Plate) listed in the rule. Therefore, the provisions of 326 IAC 7-4.1 are not applicable to any facilities at ArcelorMittal Plate, LLC (Gary Plate).

326 IAC 8-2-9 (Miscellaneous Metal and Plastic Coating Operations)

Pursuant to 326 IAC 8-2-9(d)(4), stencil coatings are exempt from the VOC limits specified in 326 IAC 8-2-9(d) for surface coating of miscellaneous metal or plastic parts in Lake and Porter Counties. Therefore, the following units are exempt from the provisions of 326 IAC 8-2-9: Slab Marking ID (ID #5), Hand Ink Stenciling (ID #16), Cold Ink Marking Unit (ID #17), and Magnemag Cold Ink Marking Units #s 1 and 2 (ID #s 29 and 30).

326 IAC 8-3 (Organic Solvent Degreasing Operations)

- (a) The provisions of 326 IAC 8-3-2 (Cold Cleaner Operation) apply to existing facilities as of January 1, 1980, performing organic solvent degreasing operations located in Clark, Elkhart, Floyd, Lake, Marion, Porter, and St. Joseph Counties and which are located at sources which have potential emissions of 100 tons or greater per year of VOC. The provisions also apply to new facilities after January 1, 1980, performing organic solvent degreasing operations located anywhere in the state. The source is located in Lake County, but the potential VOC emissions of the source are just under 100 tons per year after consideration of limitations. The plate mill operations were previously owned by US Steel Gary Works and the current source owner could not indicate whether or not the facilities were new or existing as of January 1, 1980. Therefore, as a conservative approach, the facilities will be considered new and therefore, the provisions of 326 IAC 8-3-2 are applicable to the degreasing operations. Pursuant to 326 IAC 8-3-2, the owner or operator of a cold cleaning facility shall:

- (1) Equip the cleaner with a cover.
- (2) Equip the cleaner with a facility for draining cleaned parts.
- (3) Close the degreaser cover whenever parts are not being handled in the cleaner.
- (4) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases.
- (5) Provide a permanent, conspicuous label summarizing the operating requirements

- (6) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

- (b) The provisions of 326 IAC 8-3-5 (Cold Cleaner Degreaser Operation and Control) apply to cold cleaner degreasers without remote solvent reservoirs that are located in Clark, Elkhart, Floyd, Lake, Marion, Porter, and St. Joseph Counties that are existing as of July 1, 1990. The provisions also apply to these types of facilities located in any county, which commenced construction after July 1, 1990. Since the source could not indicate whether or not the facilities were existing as of July 1, 1990, it will be assumed that the facilities were existing as of July 1, 1990. Pursuant to 326 IAC 8-3-5(a), the Permittee shall ensure that the following control equipment 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 or carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.

- (c) Pursuant to 326 IAC 8-3-5(b), the Permittee 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) The provisions of 326 IAC 8-3-8 (Material Requirements for Cold Cleaning Degreasers) are applicable to ArcelorMittal Plate, LLC (Gary Plate) because the source uses solvent for use in cold cleaning degreasers in Lake County.
- (1) Pursuant to 326 IAC 8-3-8(c)(2)(B), the Permittee shall not 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) Pursuant to 326 IAC 8-3-8(d)(2) and (e), to document compliance with the above, the Permittee shall maintain the following records for each purchase of solvent. These records 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.
 - (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).

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

Pursuant to 326 IAC 8-7-2(a), this rule applies to sources in Lake County that have the potential to emit VOC greater than or equal to 25 tons per year. In order to determine if the threshold is exceeded, the potential VOC emissions are calculated as described in 326 IAC 8-7-2(a). Based on this, all VOC emissions from the source, except for the degreasing operation emissions are counted in determining whether the threshold applies. The potential VOC emissions from the source, excluding the degreasing operation emissions, exceed 25 tons per year; therefore, the rule is applicable.

Pursuant to 326 IAC 8-7-2(b), facilities of the types listed in subsections (a)(1) through (a)(2) are exempt from the emission limit requirements of section 3 of the rule. Therefore, the coating operations, the degreasing operations, the fuel combustion units, and the reversing mill are not subject to an emission limit requirement. The reversing mill would be considered an iron and steel production facility since it was originally part of US Steel's operation. While 326 IAC 8-7 applies to ArcelorMittal Plate, LLC (Gary Plate), there are no applicable emission limitations.

Pursuant to 326 IAC 8-7-8(3), sources subject to this rule shall notify the department at least thirty (30) days prior to the addition or modification of a facility which may result in a potential increase in VOC emissions.

326 IAC 8-9-1 (Volatile Organic Liquid Storage Vessels)

This source is subject to the provisions of 326 IAC 8-9-1(a) and (b) (Volatile Organic Liquid Storage Vessels), on and after October 1, 1995, because the source has stationary vessels (degreasing units) used to store volatile organic liquids (VOL) that are located in Lake County with a capacity of less than thirty nine thousand (39,000) gallons. The source is subject to the reporting and record keeping requirements of this rule. The VOL storage vessels are exempted from all other provisions of this rule.

Pursuant to 326 IAC 8-9-6(a) and (b):

- (a) The owner or operator of each vessel subject to this rule shall keep all records required by this section for three (3) years unless specified otherwise. Records required by subsection (b) shall be maintained for the life of the vessel.
- (b) The owner or operator of each vessel to which section 1 of this rule applies 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.

326 IAC 8-17 (Industrial Solvent Cleaning Operations)

The solvent parts washers are not subject to the provisions of 326 IAC 8-17 because pursuant to 326 IAC 8-17-2(b)(1), any solvent cleaning operation that is subject to 326 IAC 8-3 is exempt from the requirements of 326 IAC 8-17.

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

The solvent parts washers are subject to the provisions of 326 IAC 8-3 and 326 IAC 8-9; therefore, the provisions of 326 IAC 8-1-6 are not applicable to them. There are no other units at ArcelorMittal Plate, LLC (Gary Plate) with potential VOC emissions of equal to or greater than twenty-five (25) tons per year. Therefore, the provisions of 326 IAC 8-1-6 are not applicable to any facilities at ArcelorMittal Plate, LLC (Gary Plate).

326 IAC 9-1 (Carbon Monoxide Emission Limits)

The provisions of 326 IAC 9-1 are applicable to stationary sources of carbon monoxide emissions commencing operation after March 21, 1972, and for which an emission limit has been established in 326 IAC 9-1-2. 326 IAC 9-1-2 does not contain any emission limits to which ArcelorMittal Plate, LLC (Gary Plate) is subject; therefore the 326 IAC 9-1 does not apply to any units at ArcelorMittal Plate, LLC (Gary Plate).

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 determination requirements applicable to this source are as follows:

Particulate Control

The Slab Grinder baghouse (SPGrStk01) shall be in operation at all times the slab grinder is in operation, in order to control Particulate emissions.

This condition is necessary because the baghouse controlling the slab grinder must be in operation in order to ensure compliance with the 326 IAC 6.8-2-38 PM10 emission limitation.

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

Control	Parameter	Frequency	Range	Excursions and Exceedances
Slab Grinder Baghouse	Visible Emissions	Daily	Normal - Abnormal	Response Step(s)
	Bag Failure in Multi-Compartment Baghouse	On-Going	Normal - Failed	

These monitoring conditions are necessary because the slab grinder baghouse must operate properly to ensure compliance with 326 IAC 6.8-2-38.

Proposed Changes

The changes listed below have been made to Part 70 Operating Permit No. T089-19192-00118 as part of this review for a permit renewal. Deleted language appears as ~~strike throughs~~ and new language appears in **bold**:

Changes Affecting Conditions Throughout the Permit

The following is a summary of changes that have been made throughout the permit:

- (a) *Multiple Conditions - Rule References*
 On October 1, 2010, revisions to Title 326 of the Indiana Administrative Code (IAC) were published in the Indiana Register. Some of the revisions affect the IAC references included in the permit. The permit has been revised to reflect the revisions that were made to Title 326 of the IAC.

- (b) *Multiple Conditions - Mailing Address*
IDEM, OAQ has decided to remove all references to the source mailing address. IDEM, OAQ will continue to maintain records of the mailing address.
- (c) *Multiple Conditions - Timeframe References*
IDEM, OAQ has decided that the phrases "no later than" and "not later than" are clearer than "within" in relation to the end of a timeline. Therefore, all references to timelines have been revised to "no later than" or "not later than" except for the timelines in subparagraphs (b)(4) and (b)(5) of Section B - Emergency Provisions and Section B - Annual Fee Payment, in which the underlying rules state "within".
- (d) *Multiple Conditions - Responsible Official References*
326 IAC 2-7 requires that "a responsible official" perform certain actions. 326 IAC 2-7-1(34) allows for multiple people to meet the definition of "responsible official." Therefore, IDEM, OAQ is revising all instances of "the responsible official" to read "a responsible official".
- (e) *Multiple Conditions - Certification Requirement References*
IDEM, OAQ has decided to clarify what rule requirements a certification needs to meet.
- (f) *Multiple Conditions - Branch Name Updates*
Several of IDEM's Branches and sections have been renamed. Therefore, IDEM has updated the addresses listed in the permit. References to Permit Administration and Development Section and the Permits Branch have been changed to Permit Administration and Support Section. References to Asbestos Section, Compliance Data Section, Air Compliance Section, and Compliance Branch have been changed to Compliance and Enforcement Branch.
- (g) *Multiple Conditions - Typographical Errors, Language Clarification, Permit Renewal Language*
Throughout the permit, typographical and grammatical errors have been corrected. Changes to language for clarification or to align with the current preferred permit language conventions have been made. Additionally, some language has been revised since this is a renewal permit and not the initial Part 70 Operating Permit.

Changes Specific to Section A of the Permit

- (a) A.1 of the permit has been revised to indicate that the county is no longer nonattainment for the 8 hour ozone standard.
- (b) The emission unit descriptions in A.2 of the permit have been revised for clarity and to remove the Car Bottom Heat Treating Furnace.
- (c) A.3 of the permit has been revised to include all insignificant activities located at the source and to clarify the insignificant activities present.
- (d) A.4 of the permit has been revised to indicate that the source is required to have a Part 70 permit because (a) "or" (b).

Section A of the permit has been revised as follows:

A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(154)] [326 IAC 2-7-1(22)]

The Permittee owns and operates a **stationary** plate mill operation.

Source Address:

One North Broadway, Gary, IN 46402-3199

~~Mailing Address:~~ 250 WEST U.S. Highway 12, Burns Harbor, IN 46304
General Phone Number: (219) 787 - 4973
SIC Code: 3399
County Location: Lake
Source Location Status: Nonattainment for ~~8-hour ozone standard and~~ PM2.5
Standard
Source Status: Attainment for all other criteria pollutants
Part 70 **Operating** Permit Program
Major Source, under PSD and ~~Emission-Offset~~**Nonattainment NSR** Rules
Area Source, Section 112 of the Clean Air Act
1 of 28 Source Categories ~~under PSD and Emission-Offset~~ **Rules**

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)][326 IAC 2-7-5(154)]

ArcelorMittal Plate, LLC (Gary Plate) consists of the following permitted emission units and pollution control devices:

One (1) Plate Mill Operation with an estimated maximum capacity of one (1) million tons per year, consisting of the following emission units:

(a) Plate Mill Slab Prep Facility

- (1) Three (3) Slow Cool Furnaces (**Nos. 1-3**), identified as ~~ID #s No. 1, No. 2 and No. 3~~, installed in 1992, having a natural gas heat input of 16 MMBtu per hour each, exhausting through Roof Monitor SPRm1.
- (2) One (1) Slab Grinder, **identified as ID #8**, installed in 1985, having an estimated capacity of 264,000 tons per year, ducted to the Slab Grinder Baghouse, exhausting through Stack SPGrStk 01.

(b) ~~Plate Mill Plant~~**Rolling Mill Operations**

- (1) Two (2) natural gas-fired Continuous Reheat Furnaces (**Nos. 1 and 2**), identified as ~~No. 1 and No. 2~~ **ID #s 9 and 10**, installed in 1961, having an estimated heat input capacity of 300 MMBtu per hour each, exhausting through Stacks PMCFStk01, PMCFStk02 and Roof Monitor PMRm1.
- (2) ~~One (1)~~**Four (4)** natural gas-fired Batch Reheat Furnaces (**Nos. 5-8**), identified as ~~No. 5~~ **ID #s 11-14**, installed in 1961, having an estimated maximum heat input capacity of 40 MMBtu per hour **each**, exhausting through the Roof Monitor PMRm1, **Stack PMBReHStk6, Roof Monitor PMRm1, and Stack PMBReHStk8, respectively.**
- (3) ~~Two (2) natural gas-fired Batch Reheat Furnaces, identified as No. 6 and No. 8 installed in 1961, having an estimated maximum heat input capacity of 40 MMBtu per hour, each, exhausting through Stacks PMBReHStk6, PMBReHStk8 and Roof Monitor PMRm1.~~
- (4) ~~One (1) natural gas-fired Batch Reheat Furnace, identified as No. 7 installed in 1961, having an estimated maximum heat input of 40 MMBtu per hour, exhausting through Roof Monitor PMRm1.~~
- (5) ~~Two (2) natural gas-fired Hardening Furnaces identified as North Hardening~~

~~Furnace (installed in 1969) and South Hardening Furnace (installed in 1962) having an estimated heat input capacity of 100 MMBtu per hour, each, exhausting through Roof Monitor PMRm1.~~

- ~~(6) Two (2) natural gas-fired Tempering Furnaces identified as North Tempering Furnace (installed in 1969) and South Tempering Furnace (installed in 1962) having an estimated maximum heat input capacity of 100 MMBtu per hour, each, exhausting through Roof Monitor PMRm1.~~
- ~~(7) One (1) natural gas-fired Car Bottom Heat Treating Furnace installed in 1961, with an estimated maximum heat input capacity of 26 MMBtu per hour, exhausting through Roof Monitor PMRm1.~~
- (38) One (1) natural gas-fired Car Bottom Normalizing Furnace, **identified as ID #21**, installed in 1961, having an estimated maximum heat input capacity of 26 MMBtu per hour, exhausting through Roof Monitor PMRm1.
- (49) Two (2) natural gas-fired Slow Cool Furnaces (**Nos. 1 and 2**), identified as ~~No. 1 and No. 2~~ **ID #s 22 and 23**, installed in 1991, having an estimated maximum heat input capacity of 32 MMBTU per hour each, exhausting through Roof Monitor PMRm1.
- (5) **One (1) Rolling Mill, with a series of stands and rollers for changing the shape of the final steel product, with a maximum capacity of 1,000,000 tons per year, including the following emission units:**
 - (A) **One (1) Hand Torch Scarfer, identified as ID #6, using natural gas combustion with a maximum heat input capacity of 1.0 MMBtu/hr, exhausting through roof monitor.**
 - (B) **One (1) Reversing Mill, identified as ID #15, exhausting inside the building.**

(c) **Heat Treat Operations**

- (10) One (1) natural gas-fired Plate Mill Heat Treatment Furnace (LOI), **identified as ID #28**, installed in 1997, with an estimated maximum heat input capacity of 56.5 MMBtu per hour, exhausting to a Stack PMHTStk1.
- (2) **Two (2) natural gas-fired Hardening Furnaces, identified as North Hardening Furnace (ID #24 installed in 1969) and South Hardening Furnace (ID #26 installed in 1962), having an estimated heat input capacity of 100 MMBtu per hour each, exhausting through Roof Monitor PMRm1.**
- (3) **Two (2) natural gas-fired Tempering Furnaces, identified as North Tempering Furnace (ID #25 installed in 1969) and South Tempering Furnace (ID #27 installed in 1962), having an estimated maximum heat input capacity of 100 MMBtu per hour each, exhausting through Roof Monitor PMRm1.**

A.3 ~~Specifically Regulated~~ Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)][326 IAC 2-7-5(154)]

ArcelorMittal Plate, LLC (Gary Plate) also includes the following insignificant activities, ~~which are specifically regulated~~, as defined in 326 IAC 2-7-1(21):

- (a) **Insignificant emission units in the Plate Mill Slab Prep Area:**
- (1) **One (1) Slab Cutting and Debur Operation, identified as ID #4, using natural gas combustion with a maximum heat input capacity of 5.0 MMBtu/hr. [326 IAC 6.8-1-2]**
 - (2) **Slab Marking, identified as ID #5.**
 - (3) **Five (5) (Nos.1 through 5) Stress Hood Furnaces, identified as ID #7, with a total heat input capacity of 30.0 MMBtu/hr.**
- ~~(a) Insignificant emission units in the Slab Prep Area: one (1) Slab Cutter, three (3) Bug Burners, five (5) (Nos.1 through 5) Stress Hood Furnaces and one (1) scarfer, exhausting through roof monitor. [326 IAC 6.8-1-2]~~
- ~~(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 6.8-1-2]~~
- ~~(c) Insignificant emission units in the Plate Mill Area: eight (8) Bug Burners, one (1) cutting torch, four (4) Gantry Burners exhausting through roof monitor. [326 IAC 6.8-1-2]~~
- (b) **Insignificant emission units in the Rolling Mill Area:**
- (1) **Hand Ink Stenciling, identified as ID #16.**
 - (2) **Cold Ink Marking Unit, identified as ID #17.**
 - (3) **Coupon Cutting, identified as ID #18. [326 IAC 6.8-1-2]**
 - (4) **Four (4) Gantry Burners for plate cutting, identified as ID #19, each with a maximum heat input capacity of 0.5 MMBtu/hr, exhausting through roof monitor. [326 IAC 6.8-1-2]**
- (c) **Insignificant emission units in the Heat Treat Area:**
- (1) **Magnemag Cold Ink Marking Units #1 and #2, identified as ID #s 29 and 30.**
 - (2) **One (1) Plasma Cutter for sample coupon cutting, identified as ID #32. [326 IAC 6.8-1-2]**
- (d) **Other Insignificant emission units:**
- (1) **Eleven (11) natural gas fired bug burners, identified as ID #31, used throughout the facility as needed, each with a maximum heat input capacity of 0.11 MMBtu/hr. [326 IAC 6.8-1-2]**
 - (2) **Solvent parts washers, including cold cleaner degreasing units without remote solvent reservoirs, identified as ID #33, using a total maximum of 42 gallons per day of solvent. [326 IAC 8-3-2] [326 IAC 8-3-5] [326 IAC 8-3-8] [326 IAC 8-9]**
 - (3) **The following equipment related to manufacturing activities not resulting in the emission of HAPs: welding and soldering equipment. [326 IAC 6.8-1-2]**
 - (4) **Multiple natural gas-fired space heaters, with heat inputs ranging from 0.85 MMBtu/hr to 1.5 MMBtu/hr.**

- (5) **A petroleum fuel, other than gasoline, dispensing facility, having a storage tank capacity less than or equal to ten thousand five hundred (10,500) gallons, and dispensing three thousand five hundred (3,500) gallons per day or less.**
- (6) **Vessels storing hydraulic oils and lubricating oils.**
- (7) **Water-based quenching operations used with heat treating processes.**
- (8) **Paved and unpaved roads and areas. [326 IAC 6-4] [326 IAC 6.8-10]**

A.4 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); **or**
- (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).

Changes Specific to Sections B and C of the Permit

IDEM, OAQ has made changes to some of the standard language in the B and C conditions of the permit to help clarify the intent of these conditions. The following is a summary of the revisions that have been made to the B and C Sections of the permit:

- (a) *Section B - Enforceability*
The appropriate Indiana Code reference has been added to the rule citations.
- (b) *Section B - Duty to Provide Information*
IDEM, OAQ has revised Section B - Duty to Provide Information by removing the statement that the submittal by the Permittee requires the certification by the "responsible official". Wording was also clarified to be consistent with 40 CFR 2, Subpart B.
- (c) *Section B - Certification*
IDEM, OAQ has decided to clarify Section B - Certification to be consistent with the rule and to clarify that Section B - Certification only states what a certification must be.
- (d) *Section B - Preventive Maintenance Plan*
IDEM, OAQ has added a new paragraph (b) to handle a future situation where the Permittee adds units that need preventive maintenance plans developed. IDEM, OAQ has also decided to clarify other aspects of Section B - Preventive Maintenance Plan.
- (e) *Section B - Emergency Provisions*
IDEM, OAQ is revising Section B - Emergency Provisions to delete paragraph (h). 326 IAC 2-7-5(3)(C)(ii) allows that deviations reported under an independent requirement do not have to be included in the Quarterly Deviation and Compliance Monitoring Report.
- (f) *Section B - Deviation from Permit Requirements and Section C - General Reporting Requirements*
IDEM, OAQ has decided that having a separate condition for the reporting of deviations is unnecessary. Therefore, Section B - Deviation from Permit Requirements and Conditions has been removed and the requirements of that condition have been added to

Section C - General Reporting Requirements. Paragraph (d) of Section C - General Reporting Requirements has been removed because IDEM, OAQ already states the timeline and certification needs of each report in the condition requiring the report. Subparagraph (g)(4), which is now (f)(4) of Section C - General Reporting Requirements, has been revised to match the underlying rule language.

- (g) *Section B - Permit Renewal*
IDEM, OAQ has decided to state which rule establishes the authority to set a deadline for the Permittee to submit additional information. Therefore, Section B - Permit Renewal has been revised.
- (h) *Section B - Permit Amendment or Modification*
Upon further review, IDEM has decided to remove (d) concerning nonroad engines from Section B – Permit Amendment or Modification. 40 CFR 89, Appendix A specifically indicates that states are not precluded from regulating the use and operation of nonroad engines, such as regulations on hours of usage, daily mass emission limits, or sulfur limits on fuel; nor are permits regulating such operations precluded, once the engine is no longer new.
- (i) *Section B - Permit Revision Under Economic Incentives and Other Programs*
IDEM, OAQ has decided to state that no notice is required for approved changes in Section B - Permit Revision Under Economic Incentives and Other Programs.
- (j) *Section B - Source Modification Requirement*
IDEM, OAQ has decided to reference 326 IAC 2 in Section B - Source Modification Requirement rather than the specific construction rule.
- (k) *Section C - Opacity*
IDEM, OAQ has added 326 IAC 5-1-1 to the exception clause of Section C - Opacity, since 326 IAC 5-1-1 does list exceptions.
- (l) *Section C - Open Burning*
The last sentence of Section C - Open Burning was removed because the provisions of 326 IAC 4-1-3(a)(2)(A) and (B) are federally enforceable and are included in Indiana's State Implementation Plan (SIP).
- (m) *Section C - Incineration*
IDEM, OAQ has revised Section C - Incineration to more closely reflect the two underlying rules. Additionally, the revisions to 326 IAC 9-1-2 were SIP approved by EPA in a November 30, 2004 rulemaking. Therefore, 326 IAC 9-1-2 is federally enforceable. The statement at the end of Section C - Incineration has been removed.
- (n) *Section C - Fugitive Dust Emissions*
A statement has been included indicating the portions of the rule that are not federally enforceable.
- (o) *Section C - Stack Height*
The Permittee does not have an exhaust stack with a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide. Therefore, Section C - Stack Height has been removed from the permit.
- (p) *Section C - Fugitive Particulate Matter Emissions [326 IAC 6.8-10-3]*
IDEM, OAQ has removed Section D.3 of the permit, which contained general fugitive particulate matter emission conditions. The general conditions have been included in

Section C of the permit and a Fugitive Dust Control Plan applicable to the source has been included as Attachment A to the permit.

- (q) *Section C - Particulate Matter Contingency Measures [326 IAC 6.8-11]*
IDEM, OAQ has determined that ArcelorMittal Plate, LLC (Gary Plate) is subject to 326 IAC 6.8-11 (Particulate Matter Contingency Measures). Therefore, a condition has been added to Section C of the permit.
- (r) *Section C - Asbestos Abatement Projects*
IDEM, OAQ has detailed the specific requirements for asbestos abatement projects.
- (s) *Section C - Performance Testing*
IDEM, OAQ has removed the first paragraph of Section C - Performance Testing due to the fact that specific testing conditions elsewhere in the permit will specify the timeline and procedures.
- (t) *Section C - Compliance Monitoring*
IDEM, OAQ has revised Section C - Compliance Monitoring. The reference to recordkeeping has been removed due to the fact that other conditions already address recordkeeping. The voice of the condition has been changed to clearly indicate that it is the Permittee that must follow the requirements of the condition.
- (u) *Section C - Monitoring Methods*
IDEM, OAQ has removed Section C - Monitoring Methods. The conditions that require the monitoring or testing, if required, state what methods shall be used.
- (v) *Section C - Continuous Compliance Plan*
The source is subject to 326 IAC 6.8-8. Therefore, Section C - Continuous Compliance Plan has been included in the permit.
- (w) *Section C - Emergency Reduction Plans*
The language in Section C - Emergency Reduction Plans has been updated to indicate that the Permittee must maintain the most recently submitted ERP.
- (x) *Section C - Response to Excursions or Exceedances*
IDEM, OAQ has revised Section C - Response to Excursions or Exceedances. The introduction sentence has been added to clarify that it is only when an excursion or exceedance is detected that the requirements of this condition need to be followed. The word "excess" was added to the last sentence of paragraph (a) because the Permittee only has to minimize excess emissions. The middle of paragraph (b) has been deleted as it was duplicative of paragraph (a). The phrase "or are returning" was added to subparagraph (b)(2) as this is an acceptable response assuming the operation or emission unit does return to normal or its usual manner of operation. The phrase "within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable" was replaced with "normal or usual manner of operation" because the first phrase is just a limited list of the second phrase. The recordkeeping required by paragraph (e) was changed to require only records of the response because the previously listed items are required to be recorded elsewhere in the permit.
- (y) *Section C - Actions Related to Noncompliance Demonstrated by a Stack Test*
IDEM, OAQ has revised Section C - Actions Related to Noncompliance Demonstrated by a Stack Test. The requirements to take response steps and minimize excess emissions have been removed because Section C - response to Excursions or Exceedances already requires response steps related to exceedances and excess emissions minimization. The start of the timelines was revised from "the receipt of the test results" to "the date of the test". There was confusion if the "receipt" was by IDEM, the Permittee

or someone else. Since the start of the timelines has been moved up, the length of the timelines was increased. The new timelines require action within a comparable timeline; and the new timelines still ensure that the Permittee will return to compliance within a reasonable timeframe.

- (z) *Section C - Emission Statement*
IDEM, OAQ decided to remove paragraph (c) of Section C - Emission Statement since it was duplicative of the requirement in Section C - General Reporting Requirements.
- (aa) *Section C - General Record Keeping Requirements*
The voice of paragraph (b) of Section C - General Record Keeping Requirements has been changed to clearly indicate that it is the Permittee that must follow the requirements of the paragraph.
- (bb) *Section C - General Record Keeping Requirements and General Reporting Requirements*
On January 22, 2008, U.S. EPA promulgated a rule to address the remand, by the U.S. Court of Appeals for the District of Columbia on June 25, 2005, of the reasonable possibility provisions of the December 31, 2002 major NSR reform rule. IDEM, OAQ has agreed with U.S. EPA to interpret "reasonable possibility" in 326 IAC 2-2 and 326 IAC 2-3 consistent with the January 22, 2008 U.S. EPA rule. To implement this interpretation, IDEM, OAQ is revising Section C - General Record Keeping Requirements and Section C - General Reporting Requirements.
- (cc) *Section C - Compliance with 40 CFR 82 and 326 IAC 22-1*
IDEM, OAQ has decided to simplify the referencing in Section C - Compliance with 40 CFR 82 and 326 IAC 22-1.

The permit has been revised as follows:

SECTION B GENERAL CONDITIONS

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

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, T089-~~49192~~**29905**-00118, 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) ***

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

B.4 Enforceability [326 IAC 2-7-7] [IC 13-17-12]

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

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

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. ~~The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).~~ 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. ~~Records requested by IDEM, OAQ which are required to be kept by a Part 70 permit may be furnished~~ **When furnishing copies of records** directly to U. S. EPA along with, **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) ~~Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance~~ **A certification submitted shall contain required by this permit meets the requirements of 326 IAC 2-7-6(1) if:**
 - (1) ~~it contains a certification by a "responsible official of truth, accuracy," as defined by 326 IAC 2-7-1(34), and completeness. This~~
 - (2) ~~the certification shall state~~ **states** that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) ~~One (1) certification shall be included, using~~ **The 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. ~~The initial certification shall cover the time period from the date of final permit issuance through December 31 of the same year. All subsequent~~ **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
~~MC61~~ **MC 61-53 IGCN1003**
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) * * *
 - (2) * * *
 - (3) * * *
 - (4) * * *
 - (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 the "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 (132)][326 IAC 2-7-6(1) and (6)][326 IAC 1-6-3]

~~(a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days after issuance of this permit, including the following information on each facility:~~

- (a) A Preventive Maintenance Plan meets the requirements of 326 IAC 1-6-3 if it includes, at a minimum:**

- (1) * * *
- (2) * * *
- (3) * * *

~~(b) The Permittee shall implement the PMPs.~~

- (b) If required by specific condition(s) in Section D of this permit where no PMP was previously required, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, including the following information on each facility:**

- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;**

- (2) **A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and**
- (3) **Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.**

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

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

The PMP extension notification does not 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).

The Permittee shall implement the PMPs.

- (c) A copy of the PMPs shall be submitted to IDEM, OAQ, upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ, may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions ~~or potential to emit~~. The PMPs **and their submittal** do not require ~~the~~ **a certification that meets the requirements of 326 IAC 2-7-6(1) by the "a responsible official"** as defined by 326 IAC 2-7-1(34).
- (ed) To the extent the Permittee is required by 40 CFR Part 60 ~~or Part 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, ~~except as otherwise provided in this condition.~~
- (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) * * *
 - (2) * * *
 - (3) * * *

- (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, or **Northwest Regional Office** within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance ~~Section~~ **and Enforcement Branch**), or

Telephone ~~No.:~~ **Number:** 317-233-0178 (ask for **Office of Air Quality, Compliance ~~Section~~ and Enforcement Branch**)

Facsimile ~~No.:~~ **Number:** 317-233-6865

~~Northwest Regional Office Telephone Number: (219) 757-0265~~

~~Northwest Regional Office Facsimile Number: phone:~~
(219) 757-0265; fax: (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

~~MC61~~ **MC 61-53 IGCN1003IGCN 1003**

Indianapolis, Indiana 46204-2251

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

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

- (A) * * *
(B) * * *
(C) * * *

The notification which shall be submitted by the Permittee does not require ~~thea~~ certification **that meets the requirements of 326 IAC 2-7-6(1)** by the "a "responsible official" as defined by 326 IAC 2-7-1(34).

- (6) * * *

(c) * * *

(d) * * *

- (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)(98) 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) * * *

~~(h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report.~~

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

* * *

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 T089-1919229905-00118 and issued pursuant to permitting programs approved into the state implementation plan have been either:

* * *

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

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

* * *

~~**B.15** Deviations from Permit Requirements and Conditions [326 IAC 2-7-5(3)(C)(ii)]~~

~~(a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provisions), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:~~

~~Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
MC61-53 IGCN1003
Indianapolis, Indiana 46204-2254~~

~~using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. 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.~~

~~The Quarterly Deviation and Compliance Monitoring Report does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).~~

~~(b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.~~

~~**B.16**~~**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 **Operating** 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 the "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, OAQ₇ determines any of the following:
 - (1) * * *
 - (2) * * *
 - (3) * * *
- (c) Proceedings by IDEM, OAQ₇ 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, OAQ₇ at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ₇ may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

B.4716 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, OAQ₇ 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 the "a "responsible official" as defined by 326 IAC 2-7-1(34).

Request for renewal shall be submitted to:

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

- (b) A timely renewal application is one that is:
 - (1) * * *
 - (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, OAQ₇ 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, OAQ₇ 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.4817 Permit Amendment or Modification [326 IAC 2-7-11][326 IAC 2-7-12]

(a) * * *

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

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

Any such application ~~shall be certified~~**does require a certification that meets the requirements of 326 IAC 2-7-6(1)** by the "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)]**
~~[326 IAC 2-7-11(c)(3)]~~

~~(d) No permit amendment or modification is required for the addition, operation or removal of a nonroad engine, as defined in 40 CFR 89.2.~~

~~**B.1918**~~ 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) * * *

B.2019 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),~~**(c)** without a prior permit revision, if each of the following conditions is met:

(1) * * *

(2) * * *

(3) * * *

(4) The Permittee notifies the:

Indiana Department of Environmental Management
~~Permits Branch~~**Permit Administration and Support Section**, Office of Air Quality

100 North Senate Avenue
~~MC64MC 61-53 IGCN1003~~**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 ~~(ec)~~. 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)(2c)(1)~~.

- (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) * * *
(2) * * *
(3) * * *
(4) * * *

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 ~~the~~ "a responsible official" as defined by 326 IAC 2-7-1(34).

- (c) * * *
(d) * * *
(e) * * *

B.2120 Source Modification Requirement [326 IAC 2-7-10.5] ~~[326 IAC 2-2-2]~~ ~~[326 IAC 2-3-2]~~

~~(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.2221~~ Inspection and Entry [326 IAC 2-7-6][IC 13-14-2-2][IC 13-30-3-1][IC 13-17-3-2]

~~B.2322~~ Transfer of Ownership or Operational Control [326 IAC 2-7-11]

(a) ***

- (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
~~Permits Branch~~ **Permit Administration and Support Section**, Office of Air Quality
100 North Senate Avenue
~~MC 61~~ **MC 61-53 IGCN1003 IGCN 1003**
Indianapolis, Indiana 46204-2251

~~The~~ **Any such** application, which shall be submitted by the Permittee, does require ~~the~~ a certification ~~by the~~ **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) ***

~~B.2423~~ 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, within thirty (30) calendar days of receipt of a billing. 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) ***

(c) ***

~~B.25-24~~ Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314] [326 IAC 1-1-6]

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

C.1 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) * * *
- (b) * * *

C.2 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.3 Incineration [326 IAC 4-2] [326 IAC 9-1-2]

The Permittee shall not operate an incinerator ~~or incinerate any waste or refuse~~ except as provided in 326 IAC 4-2 ~~and~~ **in this permit. The Permittee shall not operate a refuse incinerator or refuse burning equipment except as provided in 326 IAC 9-1-2.** ~~326 IAC 9-1-2 is not federally enforceable. or in this permit.~~

C.4 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.5 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. All sources having less than 25 tons per year of actual emissions (after controls) and stack heights in existence, or dispersion techniques implemented prior to December 31, 1970 are exempt from the stack height provisions contained in 326 IAC 1-7-3(a). 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.5 Fugitive Particulate Matter Emissions [326 IAC 6.8-10-3]

Pursuant to 326 IAC 6.8-10-3 (formerly 326 IAC 6-1-11.1) (Lake County Fugitive Particulate Matter Control Requirements), the particulate matter emissions from source wide activities shall meet the following requirements:

- (a) **The average instantaneous opacity of fugitive particulate emissions from a paved road shall not exceed ten percent (10%).**
- (b) **The average instantaneous opacity of fugitive particulate emissions from an unpaved road shall not exceed ten percent (10%).**
- (c) **The opacity of fugitive particulate emissions from exposed areas shall not exceed ten percent (10%) on a six (6) minute average.**
- (d) **The opacity of fugitive particulate emissions from continuous transfer of material onto and out of storage piles shall not exceed ten percent (10%) on a three (3) minute average.**

- (e) The opacity of fugitive particulate emissions from storage piles shall not exceed ten percent (10%) on a six (6) minute average.**
- (f) There shall be a zero (0) percent frequency of visible emission observations of a material during the inplant transportation of material by truck or rail at any time.**
- (g) The opacity of fugitive particulate emissions from the inplant transportation of material by front end loaders and skip hoists shall not exceed ten percent (10%).**
- (h) Material processing facilities shall include the following:**
 - (5) There shall be a zero (0) percent frequency of visible emission observations from a building enclosing all or part of the material processing equipment, except from a vent in the building.**
 - (6) The PM₁₀ emissions from building vents shall not exceed twenty-two thousandths (0.022) grains per dry standard cubic foot and ten percent (10%) opacity.**
 - (7) The PM₁₀ stack emissions from a material processing facility shall not exceed twenty-two thousandths (0.022) grains per dry standard cubic foot and ten percent (10%) opacity.**
 - (8) The opacity of fugitive particulate emissions from the material processing facilities, except a crusher at which a capture system is not used, shall not exceed ten percent (10%) opacity.**
 - (5) The opacity of fugitive particulate emissions from a crusher at which a capture system is not used shall not exceed fifteen percent (15%).**
- (i) The opacity of particulate emissions from dust handling equipment shall not exceed ten percent (10%).**
- (j) Material transfer limits shall be as follows:**
 - (1) The average instantaneous opacity of fugitive particulate emissions from batch transfer shall not exceed ten percent (10%).**
 - (2) Where adequate wetting of the material for fugitive particulate emissions control is prohibitive to further processing or reuse of the material, the opacity shall not exceed ten percent (10%), three (3) minute average.**
- (k) Any facility or operation not specified in 326 IAC 6.8-10-3 shall meet a twenty percent (20%), three (3) minute average opacity standard.**

The Permittee shall achieve these limits by controlling fugitive particulate matter emissions according to the attached Fugitive Dust Control Plan.

C.6 Particulate Matter Contingency Measures [326 IAC 6.8-11]

The Permittee is subject to 326 IAC 6.8-11 (Lake County Particulate Matter Contingency Measures) and shall comply with 326 IAC 6.8-11-4, 326 IAC 6.8-11-5 and 326 IAC 6.8-11-6 (formerly 326 IAC 6-1-11.2(h), (i), (k), (l), (m), (o), (p) and (q) (Lake County Particulate Matter Contingency Measures) as required.

C.67 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

~~The Permittee shall comply with the applicable requirements of 326 IAC 14-10, 326 IAC 18, and 40 CFR 61.140.~~

- (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 that meets the requirements of 326 IAC 2-7-6(1) 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.78 Performance Testing [326 IAC 3-6]

- ~~(a) All testing required pursuant to the conditions of this permit shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.~~

A test protocol for such required testing(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 Data ~~Section~~ **and Enforcement Branch**, Office of Air Quality
100 North Senate Avenue
~~MC64~~ **MC 61-53 IGCN1003IGCN 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 a certification **that meets the requirements of 326 IAC 2-7-6(1)** by thea "responsible official" as defined by 326 IAC 2-7-1(34).

- ~~(b) For such required testing~~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 a certification **that meets the requirements of 326 IAC 2-7-6(1)** by ~~the~~ "responsible official" as defined by 326 IAC 2-7-1(34).

- (c) Pursuant to 326 IAC 3-6-4(b), ~~such~~ all test reports for testing required by this permit 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.89 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. ~~Such~~ 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.9-10 Compliance Monitoring [326 IAC 2-7-5(3)][326 IAC 2-7-6(1)]

Unless otherwise specified in this permit, ~~for~~ all monitoring and record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance. ~~If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required~~ **allowed up to ninety (90) days from the date of permit issuance or of initial start-up, whichever is later, to begin such** monitoring related to that equipment. If due to circumstances beyond ~~its~~ **the Permittee's** control, ~~that~~ **any monitoring** equipment **required by this permit** cannot be installed and operated ~~with~~ **no later than ninety (90) days after permit issuance or the date of initial startup, 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
~~MC61MC 61-53 IGCN1003~~ **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 ~~the~~ "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.10 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]~~

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

C.11 Continuous Compliance Plan [326 IAC 6.8-8-1] [326 IAC 6.8-8-8]

- (a) Pursuant to 326 IAC 326 IAC 6.8-8-1, the Permittee shall submit to IDEM and maintain at source a copy of the Continuous Compliance Plan (CCP). The Permittee shall perform the inspections, monitoring and record keeping in accordance with the information in 326 IAC 6.8-8-5 through 326 IAC 6.8-8-7 or applicable procedures in the CCP.
- (b) Pursuant to 326 IAC 6.8-8-8, the Permittee shall update the CCP, as needed, retain a copy of any changes and updates to the CCP at the source and make the updated CCP available for inspection by the department. The Permittee shall submit the updated CCP, if required to IDEM, OAQ within thirty (30) days of the update.
- (c) Pursuant to 326 IAC 6.8-8, failure to submit a CCP, maintain all information required by the CCP at the source, or submit a required update to a CCP is a violation of 326 IAC 6.8-8.

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

~~* * *~~

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

C.1213 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~~ **maintain the most recently submitted** 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 Branch, Office of Air Quality
100 North Senate Avenue
MC61-53 IGCN1003
Indianapolis, Indiana 46204-2254

~~within ninety (90) days after the date of issuance of this permit.~~

~~The ERP does require the certification by the "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, OAQ₇ 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.4314 Risk Management Plan [326 IAC 2-7-5(4211)] [40 CFR 68.245]]

* * *

C.4415 Response to Excursions or Exceedances [326 IAC 2-7-5] [326 IAC 2-7-6]

- (a) Upon detecting an excursion **where a response step(s) is required by the D Section or an exceedance, of a limitation in this permit:**
- (a) The Permittee shall **take a reasonable response step(s) 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 ~~and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions).~~ **Corrective actions. The response** may include, but ~~are~~ **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 ~~within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.~~ **normal or usual manner of operation.**
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
- (1) monitoring results;
 - (2) review of operation and maintenance procedures and records; **and/or**
 - (3) inspection of the control device, associated capture system, and the process.

- (d) Failure to take a reasonable response ~~steps~~**step(s)** shall be considered a deviation from the permit.
- (e) The Permittee shall ~~maintain record the following records:~~
 - (1) ~~monitoring data;~~
 - (2) ~~monitor performance data, if applicable; and~~
 - (3) ~~corrective actions~~**reasonable response step(s)** taken.

C.4516 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5][326 IAC 2-7-6]

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall ~~take appropriate response actions. The Permittee shall submit a description of these its response actions to IDEM, OAQ, within thirty (30) days of receipt after the date of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.~~**no later than seventy-five (75) days of receipt after the date of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.**
- (b) A retest to demonstrate compliance shall be performed ~~within~~**no later than** one hundred ~~twenty (120) days of receipt of~~**eighty (180) days of receipt of** the original ~~date of the test results.~~ Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred ~~and twenty (120) days~~**eighty (180) days** is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) * * *

The response action documents submitted pursuant to this condition do require ~~the~~**a certification that meets the requirements of 326 IAC 2-7-6(1)** by the ~~"a "responsible official"~~**"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.4617 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]

- (a) In accordance with the compliance schedule specified in 326 IAC 2-6-3(b)(1), the Permittee shall submit by July 1 an emission statement covering the previous calendar year as follows:
 - (1) starting in 200~~7~~**4** and every three (3) years thereafter, and
 - (2) * * *
- (b) The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:

* * *

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

- ~~(c) 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, on or before the date it is due.~~

C.4718 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6] [326 IAC 2-2][326 IAC 2-3]

-
- (a) * * *
- (b) Unless otherwise specified in this permit, **for** all record keeping requirements not already legally required, **the Permittee** shall be ~~implemented within~~**allowed up to** ninety (90) days **from the date** of permit issuance **or the date of initial start-up, whichever is later, to begin such record keeping.**
- (c) If there is a reasonable possibility **(as defined in 326 IAC 2-2-8(b)(6))** that a “project” (as defined in 326 IAC 2-2-1-~~(qq)(oo)~~ and/or 326 IAC 2-3-1-~~(ll)(jj)~~) at an existing emissions unit, other than projects at a ~~Clean Unit (or at a source with Plant-wide~~ **Plantwide** Applicability Limitation (PAL)), which is not part of a “major modification” (as defined in 326 IAC 2-2-1-~~(ee)(dd)~~ and/or 326 IAC 2-3-1-~~(z)(y)~~) may result in significant emissions increase and the Permittee elects to utilize the “projected actual emissions” (as defined in 326 IAC 2-2-1-~~(ff)(pp)~~ and/or 326 IAC 2-3-1-~~(mm);(kk)~~), the Permittee shall comply with following:
- (1) Before beginning actual 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:**(as defined in 326 IAC 2-2-1(oo) and/or 326 IAC 2-3-1(jj) at an existing emissions unit, document and maintain the following records:**
- (A) * * *
- (B) * * *
- (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) * * *
- (ii) * * *
- (iii) Amount of emissions excluded under section 326 IAC 2-2-1-~~(ffpp)(2)(A)(iii)~~ and/or 326 IAC 2-3-1-~~(mmkk)(2)(A)(iii);~~ and
- (iv) * * *
- (d) **If there is a reasonable possibility (as defined in 326 IAC 2-2-8(b)(6)) that a “project” (as defined in 326 IAC 2-2-1(oo) and/or 326 IAC 2-3-1(jj) 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(dd) and/or 326 IAC 2-3-1(y)) may result in significant emissions increase and the Permittee elects to utilize the “projected actual emissions” (as defined in 326 IAC 2-2-1(pp) and/or 326 IAC 2-3-1(kk)), the Permittee shall comply with following:**

(21) * * *

(32) * * *

C.4819 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 probable 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 ~~within~~ **not later than** thirty (30) days ~~of~~ **after** the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report or its equivalent or its equivalent shall include ~~the~~ **a certification that meets the requirements of 326 IAC 2-7-6(1) by the “a "responsible official!" as defined by 326 IAC 2-7-1(34). A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.**
- ~~(b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:~~
- (b) The address for report submittal is:**
- Indiana Department of Environmental Management
Compliance ~~Data Section~~ **and Enforcement Branch**, Office of Air Quality
100 North Senate Avenue
~~MC64MC 61-53 IGCN1003~~ **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) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).~~
- ~~(e) 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.~~ **(d)** 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.
- (fe)** If the Permittee is required to comply with the recordkeeping provisions of ~~(ed)~~ 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) * * *
- (2) * * *

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

- (1) * * *
- (2) The annual emissions calculated in accordance with ~~(e)(2d)~~(1) and (32) in Section C - General Record Keeping Requirements.
- (3) * * *
- (4) Any other information that the Permittee ~~deems fit~~**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
~~Air-Compliance Section~~ **and Enforcement Branch**, Office of Air Quality
100 North Senate Avenue
~~MC61~~**MC 61-53 IGCN1003IGCN 1003**
Indianapolis, Indiana 46204-2251

(hg) 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.1920 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 ~~the~~**applicable** standards for recycling and emissions reduction:

- (a) ~~Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.~~
- (b) ~~Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.~~
- (c) ~~Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.~~

Changes to the D Sections of the Permit

IDEM, OAQ has made changes to some of the standard language in conditions in the D Sections of the permit to help clarify the intent of these conditions. The following is a summary of the revisions that have been made to the D Sections of the permit:

- (a) For clarity, IDEM, OAQ has changed references to the general conditions such as "in accordance with Section B", "in accordance with Section C", or other similar language to "Section C...contains the Permittee's obligation with regard to the records required by this condition.
- (b) The word "status" has been added to the Record Keeping Requirements and Reporting Requirements. The Permittee has the obligation to document the compliance status. The wording has been revised to properly reflect this.
- (c) IDEM, OAQ has decided that the phrase "In order to ensure compliance with Condition..." is more appropriate than "In order to comply with Condition..." when specifying that a control device must be used to ensure compliance with a permit Condition in the Compliance Determination portion of the D sections.
- (d) IDEM, OAQ has decided that the language for bag failure in multi-compartment baghouses is more appropriately placed in the Compliance Monitoring Requirements portion of the D sections rather than the Compliance Determination Requirements portion because a bag failure in a multi-compartment baghouse does not necessarily indicate that the control device is unable to operate and control emissions. If a failure occurs in a multi-compartment baghouse, a response step(s) should be taken.
- (e) IDEM, OAQ has decided to indicate that a reasonable response step(s) shall be taken for compliance monitoring parameters outside of the range instead of reasonable response steps. It will be up to the Permittee to determine the number of reasonable response steps required to bring a control device parameter back into the normal range.
- (f) Emission unit and insignificant activity descriptions have been revised for clarity.
- (g) Insignificant activities with 326 IAC 6.8-1-2 emission limitations and those included in the sitewide natural gas usage limit were included in Section D.1 of the permit (moved from Section D.2).
- (h) The 326 IAC 6.8-1-2 emission limitations were removed for units firing natural gas only since it was determined that particulate emission limitations are not applicable for units firing natural gas only (see State Rule Applicability Section). A condition was added specifying that these units burn natural gas only in order to render 326 IAC 6.8-1-2 not applicable. This is a Title I change.
- (i) The unit-specific PM10 emission limits found in 326 IAC 6.8-2-38 for the Continuous Reheat Furnaces Nos. 1 and (ID #s 9 and 10), the Plate Mill Batch Reheat Furnaces Nos. 6 and 8 (ID #s 12 and 14), and the Plate Mill Heat Treatment Furnace (LOI) (ID #28) were removed and replaced with a condition that these units shall combust natural gas only. See the State Rule Applicability Section for further details. This is a Title I change.
- (j) A new source-wide natural gas usage limit was included in the permit to limit the potential to emit of hexane to less than ten (10) tons per year to render this an area source. This is a Title I change.
- (k) Condition D.1.5(b) was revised to indicate that compliance with the natural gas usage

limitation shall be determined on a monthly rolling basis instead of a daily rolling basis. This condition was a carry-over from when the units belonged to U.S. Steel and U.S. Steel had requested that compliance be determined on a daily rolling basis. This change does not affect the intent of the original limitation. This is a Title I change.

- (l) A new Section D.2 was created to include the requirements for the solvent parts washers. This is a Title I change.
- (m) Section D.3 for Fugitive Dust Sources was removed from the permit. The general fugitive particulate matter limits are now included in Section C of the permit and a Fugitive Dust Control Plan is included as Attachment A of the permit.

The permit has been revised as follows:

SECTION D.1 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(145)]:

One (1) Plate Mill Operation with a maximum capacity of one (1) million tons per year, consisting of:

(a) Plate Mill Slab Prep Facility

- (1) Three (3) Slow Cool Furnaces (**Nos. 1-3**), identified as **ID #s No. 1, No. 2 and No. 3**, installed in 1992, having a natural gas heat input of 16 MMBtu per hour each, exhausting through Roof Monitor SPRm1.
- (2) One (1) Slab Grinder, **identified as ID #8**, installed in 1985, having an **estimated** capacity of 264,000 tons per year, ducted to the Slab Grinder Baghouse, exhausting through Stack SPGrStk 01.

(b) ~~Plate Mill Plant~~ **Rolling Mill Operations**

- (1) Two (2) natural gas-fired Continuous Reheat Furnaces (**Nos. 1 and 2**), identified as **ID #s 9 and 10, No. 1 and No. 2** installed in 1961, having an **estimated** heat input capacity of 300 MMBtu per hour each, exhausting through Stacks PMCFStk01, PMCFStk02 and Roof Monitor PMRm1.
- (2) ~~One (1)~~ **Four (4)** natural gas-fired Batch Reheat Furnaces (**Nos. 5-8**), identified as **ID #s 11-14, No. 5** installed in 1961, having an **estimated** maximum heat input capacity of 40 MMBtu per hour **each**, exhausting through the Roof Monitor PMRm1, **Stack PMBReHStk6, Roof Monitor PMRm1, and Stack PMBReHStk8, respectively.**
- ~~(3) Two (2) natural gas-fired Batch Reheat Furnaces, identified as No. 6 and No. 8 installed in 1961, having a maximum heat input capacity of 40 MMBtu per hour, each, exhausting through Stacks PMBReHStk6, PMBReHStk8 and Roof Monitor PMRm1.~~
- ~~(4) One (1) natural gas-fired Batch Reheat Furnace, identified as No. 7 installed in 1961, having a maximum heat input of 40 MMBtu per hour, exhausting through Roof Monitor PMRm1.~~
- (3) **One (1) natural gas-fired Car Bottom Normalizing Furnace, identified as ID #21, installed in 1961, having an estimated maximum heat input capacity of 26 MMBtu per hour, exhausting through Roof Monitor PMRm1.**
- (4) **Two (2) natural gas-fired Slow Cool Furnaces (Nos. 1 and 2), identified as ID #s 22 and 23, installed in 1991, having an estimated maximum heat input capacity of 32 MMBTU per hour each, exhausting through Roof Monitor PMRm1.**
- (5) **One (1) Rolling Mill, with a series of stands and rollers for changing the shape of**

the final steel product, with a maximum capacity of 1,000,000 tons per year, including the following emission units:

- (A) One (1) Hand Torch Scarfer, identified as ID #6, using natural gas combustion with a maximum heat input capacity of 1.0 MMBtu/hr, exhausting through roof monitor.**
- (B) One (1) Reversing Mill, identified as ID #15, exhausting inside the building.**

(c) Heat Treat Operations

- (1) One (1) natural gas-fired Plate Mill Heat Treatment Furnace (LOI), identified as ID #28, installed in 1997, with an estimated maximum heat input capacity of 56.5 MMBtu per hour, exhausting to a Stack PMHTStk1.**
- (52) Two (2) natural gas-fired Hardening Furnaces, identified as North Hardening Furnace (ID #24 installed in 1969) and South Hardening Furnace (ID #26 installed in 1962) having an estimated heat input capacity of 100 MMBtu per hour, each, exhausting through Roof Monitor PMRm1.**
- (63) Two (2) natural gas-fired Tempering Furnaces, identified as North Tempering Furnace (ID #25 installed in 1969) and South Tempering Furnace (ID #27 installed in 1962) having an estimated maximum heat input capacity of 100 MMBtu per hour, each, exhausting through Roof Monitor PMRm1.**
- ~~**(7) One (1) natural gas-fired Car Bottom Heat Treating Furnace installed in 1961, with a maximum heat input capacity of 26 MMBtu per hour, exhausting through Roof Monitor PMRm1.**~~
- ~~**(8) One (1) natural gas-fired Car Bottom Normalizing Furnace installed in 1961, having a maximum heat input capacity of 26 MMBtu per hour, exhausting through Roof Monitor PMRm1.**~~
- ~~**(9) Two (2) natural gas-fired Slow Cool Furnaces, identified as No. 1 and No. 2 installed in 1991, having a maximum heat input capacity of 32 MMBTU per hour each, exhausting through Roof Monitor PMRm1.**~~
- ~~**(10) One (1) natural gas-fired Plate Mill Heat Treatment Furnace (LOI) installed in 1997, with a maximum heat input capacity of 56.5 MMBtu per hour, exhausting to a Stack PMHTStk1.**~~

Insignificant Activities

(a) Insignificant emission units in the Plate Mill Slab Prep Area:

- (1) One (1) Slab Cutting and Debur Operation, identified as ID #4, using natural gas combustion with a maximum heat input capacity of 5.0 MMBtu/hr. [326 IAC 6.8-1-2]**
- (3) Five (5) (Nos.1 through 5) Stress Hood Furnaces, identified as ID #7, with a total heat input capacity of 30.0 MMBtu/hr.**

(b) Insignificant emission units in the Rolling Mill Area:

(3)	Coupon Cutting, identified as ID #18. [326 IAC 6.8-1-2]
(4)	Four (4) Gantry Burners for plate cutting, identified as ID #19, each with a maximum heat input capacity of 0.5 MMBtu/hr, exhausting through roof monitor. [326 IAC 6.8-1-2]
(c)	Insignificant emission units in the Heat Treat Area:
(2)	One (1) Plasma Cutter for sample coupon cutting, identified as ID #32. [326 IAC 6.8-1-2]
(d)	Other Insignificant emission units:
(1)	Eleven (11) natural gas fired bug burners, identified as ID #31, used throughout the facility as needed, each with a maximum heat input capacity of 0.11 MMBtu/hr. [326 IAC 6.8-1-2]
(3)	The following equipment related to manufacturing activities not resulting in the emission of HAPs: welding and soldering equipment. [326 IAC 6.8-1-2]
(4)	Multiple natural gas-fired space heaters, with heat inputs ranging from 0.85 MMBtu/hr to 1.5 MMBtu/hr.

(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 Particulate Emissions Limitations [326 IAC 6.8-1-2]

Pursuant to 326 IAC 6.8-1-2 (formerly 326 IAC 6-1-2) **(Particulate Matter Limitations for Lake County)**, particulate matter emissions from the hand torch scarfer (ID #6), the slab cutting and debur operation (ID #4), the coupon cutting operation (ID #18), the gantry burners (ID #19), the plasma cutter (ID #32), the bug burners (ID #31), and the welding and soldering equipment shall not exceed the Permittee shall not allow or permit discharge to the atmosphere of any gases which contain 0.03 grains per dry standard cubic feet (gr/dscf). Particulate Matter emissions from the No.1, No. 2 and No.3 Slow Cool Furnaces (SPRm1), No.5 Batch Reheat Furnace(PMRm1), No.7 Batch Reheat Furnace(PMRm1) North Hardening Furnace and South Hardening Furnaces (PMRm1), North Tempering Furnace and South Tempering Furnace (PMRm1), Car Bottom Heat Treating Furnace (PMRm1), Car Bottom Normalizing Furnace (PMRm1) and No.1 and No.2 Slow Cool Furnaces (PMRm1).

D.1.2 Lake County PM-10 Emissions Requirements [326 IAC 6.8-2-38]

- (a) Pursuant to 326 IAC 6.8-2-38 (formerly 326 IAC 6-1-10.1(d)(36)), the PM10 emissions from the Slab Grinder baghouse (ID #8) (SPGrStk01) shall not exceed **0.0100 gr/dscf and 2.57 lb/hr.** the following:
- (b) Pursuant to 326 IAC 6.8-2-1(d), the Permittee shall combust only natural gas in the Continuous Reheat Furnaces Nos. 1 and 2 (ID #s 9 and 10), the Plate Mill Batch Reheat Furnaces Nos. 6 and 8 (ID #s 12 and 14), and the Plate Mill Heat Treatment Furnace (LOI) (ID #28).
- (a) ~~No.1 and No.2 Continuous Reheat Furnaces (PMCFStk01 and PMCFStk02) shall not exceed 0.009 pound of PM-10 per MMBtu of heat input each and 3.72 pounds per hour total.~~

- (b) ~~No.6 and No.8 Batch Reheat Furnaces (PMBReHStk6 and PMBReHStk8) shall not exceed 0.009 pound of PM10 per MMBtu of heat input each and 0.070 pound per hour total.~~
- (c) ~~The Slab Grinder baghouse (SPGrStk01) shall not exceed 0.0100 gr/dscfm and 2.57 pounds per hour.~~
- (d) ~~Plate Mill Heat Treatment Furnace (LO1) shall not exceed 0.003 gr/dscfm and 0.096 pounds per hour.~~

D.1.3 Non-Applicability of Particulate Emission Limitations [326 IAC 6.8-1-2]

The Permittee shall only burn natural gas in the following units: Slow Cool Furnaces Nos. 1-3 (ID #s 1-3), Batch Reheat Furnaces Nos. 5 and 7 (ID #s 11 and 13), Car Bottom Normalizing Furnace (ID #21), Slow Cool Furnaces Nos. 1 and 2 (ID #s 22 and 23), North Hardening Furnace (ID #24), South Hardening Furnace (ID #26), North Tempering Furnace (ID #25), South Tempering Furnace (ID #27), stress hood furnaces (ID #7), and space heaters. Compliance with this limit shall render the requirements of 326 IAC 6.8-1-2 not applicable for the above listed units.

D.1.4 Area Source Limit [40 CFR 63]

The total natural gas usage for all operations by the Permittee shall be less than 11,000 million cubic feet per twelve (12) consecutive month period, with compliance determined at the end of each month. Compliance with this limitation shall limit the potential to emit of hexane to less than ten (10) tons per twelve (12) consecutive month period and render this an area source under 40 CFR Part 63.

~~D.1.3 Sulfur Dioxide (SO2) Limitations [326 IAC 7-4.1-1]~~

~~Pursuant to 326 IAC 7-4.1-1, fossil fueled sources, the Slow Cool Furnaces No.1, No. 2 and No.3 (SPRm1), North Hardening Furnace and South Hardening Furnaces (PMRm1), North Tempering Furnace and South Tempering Furnace (PMRm1), Car Bottom Heat Treating Furnace (PMRm1), Car Bottom Normalizing Furnace (PMRm1), No.1 and No.2 Slow Cool Furnaces (PMRm1), and Plate Mill Heat Treatment Furnace (PMHTStk1) shall burn natural gas only.~~

D.1.54 Nitrogen Oxides Emission Limitations [326 IAC 2-2][326 IAC 2-3]

- (a) **The total natural gas usage for the five (5) No.1, No. 2 and No.3 Slow Cool Furnaces (ID #s 1-3, 22, and 23, installed in 1991 and 1992) (SPRm1) and No.1 and No.2 Slow Cool Furnaces (PMRm1) combined shall not exceed 779 million cubic feet per twelve (12) consecutive month period, with compliance determined at the end of each month. Compliance with this limit shall limit the potential to emit of NOx from the project to less than forty (40) tons per twelve (12) consecutive month period and render This fuel limitation is equivalent to 39 tons of NOx per year. Therefore, 326 IAC 2-2 (PSD) and 326 IAC 2-3 (Emission Offsets), do not apply not applicable.**
- (b) ~~Pursuant to Construction Permit 089-14988-00121, issued July 19, 2002 to USS, the input total natural gas usage for the Plate Mill Heat Treatment Furnace (ID #28), shall be limited to 279.2 million cubic feet per twelve (12) consecutive month period, with compliance determined at the end of each month year rolled on a daily basis. Compliance with this limit shall limit the potential to emit of NOx from the project to less than forty (40) tons per twelve (12) consecutive month period and render This production limitation is equivalent to NOx emissions of 25.1 tons per 12 consecutive month period. This production limitation is equivalent to NOx emissions of 0.22 tons per month. Therefore, 326 IAC 2-2 (PSD) and 326 IAC 2-3 (Emission Offsets), do not apply not applicable.~~

D.1.65 Preventive Maintenance Plan [326 IAC 2-7-5(123)]

~~A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, is required for these facilities and control devices.~~ **Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the plans required by this condition.**

Compliance Determination Requirements

D.1.76 Particulate Control [326 IAC 2-7-6(6)]

~~(a) The Slab Grinder baghouse (SPGrStk01) shall be in operation at all times the slab grinder is in operation, in order to control Particulate emissions.~~

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

D.1.87 Visible Emissions Notations [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

- (a) ~~Visible emission notations of the Slab Grinder baghouse (SPGrStk01), exhausts shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.~~ **Daily** visible emission notations of the Slab Grinder baghouse (SPGrStk01), exhausts shall be performed ~~once per day~~ during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) * * *
- (c) * * *
- (d) * * *
- (e) If abnormal emissions are observed, the Permittee shall take a reasonable response step(s). ~~in accordance with Section C-Response to Excursions or Exceedences~~ **contains the Permittee's obligation with regard to the response step(s) required by this condition.** Failure to take a response step(s) ~~in accordance with Section C - Response to Excursions or Exceedences~~ shall be considered a deviation from this permit.

D.1.9 Broken or Failed Bag Detection - Multi-Compartment Baghouse

In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

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

D.1.108 Record Keeping Requirements

- (a) **To document the compliance status with Condition D.1.4, the Permittee shall maintain a log of the total source-wide natural gas usage on a monthly basis.**
- (ab) To document **the compliance status** with Condition D.1.45-(a), the Permittee shall maintain a log of the natural gas usage in the **five (5) Slow Cool Furnaces (ID #s 1-3, 22, and 23)**~~No. 1, No. 2 and No. 3 Slow Cool Furnaces (SPRm1) and No. 1 and No. 2 Slow Cool Furnaces (PMRm1)~~ on a monthly basis.
- (bc) To document **the compliance status** with Condition D.1.45-(b), the Permittee shall maintain a log of the natural gas usage in the Plate Mill Heat Treatment Furnace **(ID #28) on a monthly basis**~~per 12 consecutive month period.~~
- (ed) To document **the compliance status** with Condition D.1.97, the Permittee shall maintain records of the once per day visible emissions of the Slab Grinder baghouse (SPGrStk01). **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). If the emission unit is not in operation for an extended period of time, the Permittee may indicate that shutdown date and restart date in the log.

- (de) ~~All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit~~ **contains the Permittee's obligation with regard to the records required by this condition.**

D.1.119 Reporting Requirements

~~(a) A quarterly summary of the information to document the compliance status with Conditions D.1.4 and D.1.5D.1.4 (a) and (b) shall be submitted to the address listed in Section C- General Reporting Requirements of this permit, using the reporting forms located at the end of this permit, or their equivalent, within no later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting Requirements contains the Permittee's obligation with regard to the reporting required by this condition.~~

~~(b) The reports submitted by the Permittee do require the a certification that meets the requirements of 326 IAC 2-7-6(1) by the 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)]:

Regulated Insignificant Activities:

~~(a) Insignificant emission units in the Slab Prep Area: one (1) Slab Cutter, three (3) Bug Burners, five (5) (Nos.1 through 5) Stress Hood Furnaces and one (1) scarfer, exhausting through roof monitor. [326 IAC 6.8-1-2]~~

~~(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 6.8-1-2]~~

~~(c) Insignificant emission units in the Plate Mill Area: eight (8) Bug Burners, one (1) cutting torch, four (4) Gantry Burners exhausting through roof monitor. [326 IAC 6.8-1-2]~~

~~(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 Nonattainment Area Particulate Limitations [326 IAC 6.8-1-2]

~~Pursuant to 326 IAC 6.8-1-2 (formerly 326 IAC 6-1-2)(Nonattainment Area Particulate Limitations), the particulate matter emissions from the Slab Cutter, Bug Burners, Stress Hood Furnaces, scarfer, brazing equipment, cutting torches, soldering equipment and welding equipment shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf) as determined by Method 5.~~

SECTION D.2 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(14)]:

Insignificant Activities:

(d) Other Insignificant emission units:

- (2) Solvent parts washers, including cold cleaner degreasing units without remote solvent reservoirs, identified as ID #33, using a total maximum of 42 gallons per day of solvent. [326 IAC 8-3-2] [326 IAC 8-3-5] [326 IAC 8-3-8] [326 IAC 8-9]**

(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 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operation), for cold cleaning operations constructed after January 1, 1980, the Permittee shall:

- (a) Equip the cleaner with a cover;**
- (b) Equip the cleaner with a facility for draining cleaned parts;**
- (c) Close the degreaser cover whenever parts are not being handled in the cleaner;**
- (d) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;**
- (e) Provide a permanent, conspicuous label summarizing the operation requirements; and**
- (f) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.**

D.2.2 Volatile Organic Compounds (VOC) [326 IAC 8-3-5]

(a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), for cold cleaner degreaser operations without remote solvent reservoirs existing as of July 1, 1990, located in Clark, Elkhart, Floyd, Lake, Marion, Porter or St. Joseph Counties, the Permittee shall ensure that the following control equipment 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 or carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.
- (b) Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), the Permittee 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.2.3 Volatile Organic Compounds (VOC) [326 IAC 8-3-8]

Pursuant to 326 IAC 8-3-8 (Material Requirements for Cold Cleaning Degreasers), the Permittee shall not 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).

Record Keeping and Reporting Requirement [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.2.4 Record Keeping Requirements

-
- (a) To document the compliance status with Condition D.2.3 and pursuant to 326 IAC 8-3-8(d)(2) and (e), the Permittee shall maintain the following records for each purchase of solvent. These records 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.

- (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).**
- (b) To document the compliance status with 326 IAC 8-9, the Permittee of each Volatile Organic Liquid Storage vessel to which 326 IAC 8-9 applies, shall maintain the following records for the life of each vessel:**
- (1) The vessel identification number.**
 - (2) The vessel dimensions.**
 - (3) The vessel capacity.**

D.2.5 Reporting Requirements

To document the compliance status with 326 IAC 8-9, a one-time report of the information listed in Condition D.2.4(b) shall be submitted to IDEM, OAQ not later than one hundred eighty (180) days after issuance of T089-29905-00118. Section C - General Reporting Requirements 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.3 FUGITIVE DUST SOURCES

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

~~Fugitive Dust Sources consisting of, but not limited to the following:~~

- ~~(1) Paved Roads and Parking Lots~~
- ~~(2) Unpaved Roads and Parking Lots~~
- ~~(3) Batch Transfer Loading and Unloading Operations~~
- ~~(4) Continuous Transfer In and Out of Storage Piles~~
- ~~(5) Wind Erosion from Storage Piles and Open Areas~~
- ~~(6) In Plant Transfer by Truck or Rail~~
- ~~(7) In Plant Transfer by Front End Loader or Skip Hoist~~

(8) Material Processing Facility (except Crusher Fugitive Emissions)
(9) Crusher Fugitive Emissions
(10) Material Processing Facility Building Openings
(11) Dust Handling Equipment

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

F.1 Fugitive Dust Emissions [326 IAC 6.8-10]

~~(a) Pursuant to 326 IAC 6.8-10 (formerly 326 IAC 6-1-11.1) (Lake County Fugitive Particulate Matter Control Requirements), the particulate matter emissions from source wide activities shall meet the following requirements:~~

~~(1) Paved roads and Parking Lots.~~

~~(A) The average instantaneous opacity of fugitive particulate emissions from a paved road shall not exceed ten percent (10%). The average instantaneous opacity shall be the average of twelve (12) instantaneous opacity readings, taken for four (4) vehicle passes, consisting of three (3) opacity readings for each vehicle pass. The three (3) opacity readings for each vehicle pass shall be taken as follows:~~

~~(i) The first shall be taken at the time of emission generation.~~

~~(ii) The second shall be taken five (5) seconds later.~~

~~The third shall be taken five (5) seconds later or ten (10) seconds after the first.~~

~~The three (3) readings shall be taken at the point of maximum opacity. The observer shall stand approximately fifteen (15) feet from the plume and at approximately right angles to the plume. Each reading shall be taken approximately four (4) feet above the surface of the roadway or parking area.~~

~~(B) The Permittee shall implement the control measures specified by 326 IAC 6.8-10-4 (formerly 326 IAC 6-1-11.1(e)(3)(F)) within twenty-four (24) hours after notification by the IDEM, OAQ or U.S.EPA of violating the average instantaneous opacity limit. A violation of the instantaneous average opacity limit is a violation of 326 IAC 6.8-10 (formerly 326 IAC 6-1-11.1).~~

~~(C) When requested by the department or the U.S. EPA, after an exceedance of the opacity limit is observed by a representative of either agency, the source shall initiate a compliance check with the surface silt loading limit. The department may require a revision of the control plan under subsection 326 IAC 6.8-10-4 (formerly 326 IAC 6-1-11.1(e)(8)), if the test shows an exceedance of the surface silt loading limit.~~

~~(2) Unpaved Roads and Parking Lots.~~

~~(A) The average instantaneous opacity of fugitive particulate emissions from an unpaved road shall not exceed ten percent (10%). The average instantaneous opacity shall be the average of twelve (12) instantaneous opacity readings, taken for four (4) vehicle passes, consisting of three (3) opacity readings for each vehicle pass. The three (3) opacity readings for each vehicle pass shall be taken as follows:~~

~~(i) The first shall be taken at the time of emission generation.~~

~~(ii) The second shall be taken five (5) seconds later.~~

~~(iii) The third shall be taken five (5) seconds later or ten (10) seconds after the first.~~

The three (3) readings shall be taken at the point of maximum opacity. The observer shall stand approximately fifteen (15) feet from the plume and at approximately right angles to the plume. Each reading shall be taken approximately four (4) feet above the surface of the roadway or parking area.

~~_____ (B) _____ The fugitive particulate emissions from unpaved roads shall be controlled by the implementation of a work program and work practice under the control plan required in 326 IAC 6.8-10-4 (formerly 326 IAC 6-1-11.1 (e)). The department may request a revision of the control plan pursuant to 326 IAC 6.8-10 (formerly 326 IAC 6-1-11.1(e)(8)), if an observation shows an exceedance of the average instantaneous opacity limit. The revision may be in lieu of, or in addition to, pursuing an enforcement action for a violation of the limit.~~

~~_____ (3) _____ Material Transfer Limits.~~

~~(A) _____ The average instantaneous opacity of fugitive particulate emissions from batch transfer shall not exceed ten percent (10%). The average instantaneous opacity shall consist of the average of three (3) opacity readings taken five (5) seconds, ten (10) seconds, and fifteen (15) seconds after the end of one (1) batch loading or unloading operation. The three (3) readings shall be taken at the point of maximum opacity. The observer shall stand approximately fifteen (15) feet from the plume and at approximately right angles to the plume.~~

~~(B) _____ Where adequate wetting of the material for fugitive particulate emissions control is prohibitive to further processing or reuse of the material, the opacity shall not exceed ten percent (10%) three (3) minute average. This includes material transfer to the initial hopper of a material processing facility as defined in 326 IAC 6.8-10-2 (formerly 326 IAC 6-1-11.1(c)) or material transfer for transportation within or outside the source property including, but not limited to, the following:~~

~~_____ (i) _____ Transfer of slag product for use by asphalt plants:~~

~~_____ (AA) _____ From a storage pile to a front end loader; and
From a front end loader to a truck.~~

~~_____ (ii) _____ Transfer of sinter blend for use at the sinter plant:~~

~~_____ (AA) _____ From a storage pile to a front end loader;
_____ (BB) _____ From a front end loader to a truck; and
_____ (CC) _____ From a truck to the initial processing point.~~

~~_____ (iii) _____ Transfer of coal for use at a coal processing line:~~

~~_____ (AA) _____ From a storage pile to a front end loader; and
_____ (BB) _____ From a front end loader to the initial hopper of a coal
processing line.~~

~~**Compliance with any operation lasting less than three (3) minutes shall be determined as an average of consecutive operations recorded at fifteen (15) second intervals for the duration of the operation.**~~

~~_____ (4) _____ The opacity of fugitive particulate emissions from continuous transfer of material onto and out of storage piles shall not exceed ten percent (10%) on a three (3) minute average. The opacity shall be determined using 40 CFR 60, Appendix A, Method 9. The opacity readings shall be taken at least four (4) feet from the point of origin.~~

~~_____ (5) _____ Wind erosion from storage piles and exposed areas.~~

~~_____ (A) _____ The opacity of fugitive particulate emissions from storage piles shall not exceed ten percent (10%) on a six (6) minute average. The opacity shall be determined using 40 CFR 60, Appendix A, Method 9, except that the opacity shall be observed at approximately four (4) feet from the surface at the point of maximum opacity. The observer shall stand approximately fifteen (15) feet from the plume and at approximately right angles to the plume. These limitations may not apply during~~

~~periods when application of fugitive particulate control measures are either ineffective or unreasonable due to sustained very high wind speeds. During periods of sustained very high wind speeds, the Permittee must continue to implement all reasonable fugitive particulate control measures and maintain records documenting the application of measures and the basis for a claim that meeting the opacity limitation was not reasonable given prevailing wind conditions.~~

~~_____ (B) _____ The opacity of fugitive particulate emissions from exposed areas shall not exceed ten percent (10%) on a six (6) minute average. The opacity shall be determined using 40 CFR 60, Appendix A, Method 9. These limitations may not apply during periods when application of fugitive particulate control measures are either ineffective or unreasonable due to sustained very high wind speeds. During periods of sustained very high wind speeds, the Permittee must continue to implement all reasonable fugitive particulate control measures and maintain records documenting the application of measures and the basis for a claim that meeting the opacity limitation was not reasonable given prevailing wind conditions.~~

~~_____ (6) _____ Inplant Transportation of Material by Truck or Rail.~~

~~There shall be a zero (0) percent frequency of visible emission observations of a material during the in plant transportation of material by truck or rail at any time. Material transported by truck or rail that is enclosed and covered shall be considered in compliance with the in plant transportation requirement. Compliance with this limitation shall be determined by 40 CFR 60, Appendix A, Method 22, except that the observation shall be taken at approximately right angles to the prevailing wind from the leeward side of the truck or railroad car.~~

~~_____ (7) _____ Inplant Transportation of Material by Front End Loader or Skip Hoist.~~

~~The opacity of fugitive particulate emissions from the in plant transportation of material by front end loaders and skip hoists shall not exceed ten percent (10%). Compliance with this limitation shall be determined by the average of three (3) opacity readings taken at five (5) second intervals. The three (3) opacity readings shall be taken as follows:~~

~~_____ (A) _____ The first shall be taken at the time of emission generation.~~

~~_____ (B) _____ The second shall be taken five (5) seconds later.~~

~~_____ (C) _____ The third shall be taken five (5) seconds later or ten (10) seconds after the first.~~

~~The three (3) readings shall be taken at the point of maximum opacity. The observer shall stand at least fifteen (15) feet from the plume approximately and at right angles to the plume. Each reading shall be taken approximately four (4) feet above the surface of the roadway or parking area.~~

~~_____ (8) _____ Material Processing Facilities.~~

~~_____ (A) _____ The PM₁₀ stack emissions from each material processing facility shall not exceed twenty-two thousandths (0.022) grain per dry standard cubic foot and ten percent (10%) opacity. Compliance with the concentration limitation shall be determined using the test methods found in 326 IAC 6.8-3-1 (formerly 326 IAC 6-1-10.1(f)). Compliance with the opacity limitation shall be determined by 40 CFR 60, Appendix A, Method 9.~~

~~_____ (B) _____ The opacity of fugitive particulate emissions from a material processing facility, except crusher at which a capture system is not used, shall not exceed ten percent (10%). Compliance with this limitation shall be determined by 40 CFR 60, Appendix A, Method 9.~~

~~_____ (C) _____ The opacity of fugitive particulate emissions from a crusher at which a capture system is not used shall not exceed fifteen percent (15%). Compliance with this limitation shall~~

~~be determined by 40 CFR 60, Appendix A, Method 9.~~

~~(D) There shall be a zero (0) percent frequency of visible emission observations from a building enclosing all or part of the material processing equipment, except from a vent in the building. Compliance with this limitation shall be determined by 40 CFR 60, Appendix A, Method 22.~~

~~(E) The PM₁₀ emissions from building vents shall not exceed twenty-two thousandths (0.022) grain per dry standard cubic foot and ten percent (10%) opacity. Compliance with the concentration standard shall be determined by 40 CFR 60, Appendix A, Method 5 or 17, and with the opacity standard by 40 CFR 60, Appendix A, Method 9.~~

~~(9) Dust Handling Equipment. The opacity of particulate emissions from dust handling equipment shall not exceed ten percent (10%). Compliance with this standard shall be determined by 40 CFR 60, Appendix A, Method 9.~~

~~(10) Any facility or operation not specified in 326 IAC 6.8-10-3 (formerly 326 IAC 6-1-11.1(d)(1)-(8)) shall meet a twenty percent (20%), three (3) minute opacity standard. Compliance with this limitation shall be determined by 40 CFR 60, Appendix A, Method 9, except that the opacity standard shall be determined as an average of twelve (12) consecutive observations recorded at fifteen (15) second intervals. Compliance of any operation lasting less than three (3) minutes shall be determined as an average of consecutive observations recorded at fifteen (15) second intervals for the duration of the operation.~~

~~(b) The Permittee is subject to 326 IAC 6.8-11-4, 326 IAC 6.8-11-5 and 326 IAC 6.8-11-6 (formerly 326 IAC 6-1-11.2(h), (i), (k), (l), (m), (o), (p) and (q)) (Lake County Particulate Matter Contingency Measures) because it is subject to the requirements of 326 IAC 6.8-10 (formerly 326 IAC 6-1-11.1).~~

~~(c) Permittee shall submit a Fugitive Dust Control Plan to the IDEM in accordance with 326 IAC 6.8-10 (formerly 326 IAC 6-1-11.1). Permittee shall keep records consistent with its Fugitive Dust Control Plan.~~

Changes to the Forms of the Permit

The following is a summary of the changes that have been made to the forms at the end of the permit:

- (a) IDEM, OAQ has decided to remove the last sentence dealing with the need for certification from the forms because the Conditions requiring the forms already address this issue.
- (b) The phrase "of this permit" has been added to the paragraph of the Quarterly Deviation and Compliance Monitoring Report to match the underlying rule.
- (c) A new reporting form was added for source-wide natural gas usage.

Recommendation

The staff recommends to the Commissioner that the 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.

An application for the purposes of this review was received on November 19, 2010. Additional information was received on December 16, 2010, December 17, 2010, January 14, 2011, August 8, 2011, September 30, 2011, and October 19, 2011, December 20, 2011, and January 13, 2012.

Conclusion

The operation of this stationary plate mill operation shall be subject to the conditions of the attached Part 70 Operating Permit Renewal No. T089-29905-00118.

IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Laura Spriggs 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) 233-5693 or toll free at 1-800-451-6027 extension 3-5693.
- (b) A copy of the findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: www.idem.in.gov

Appendix A: Emission Calculations
Summary - Unlimited PTE

Company Name: ArcelorMittal Plate, LLC (Gary Plate)
Address City IN Zip: One North Broadway, Gary, IN 46402
Part 70 OP Renewal No.: T089-29905-00118
Reviewer: Laura Spriggs

ID #	Emission Unit	Uncontrolled Potential to Emit (ton/yr)										Worst HAP
		PM	PM10	PM2.5	SO2	NOx	VOC	CO	GHGs	Total HAPs	Single Worst HAP	
Plate Mill Slab Prep												
1	Slow Cool Furnace No. 1 (1992, 16 MMBtu/hr)	0.13	0.52	0.52	0.04	6.87	0.38	5.77	8261.66	0.13	0.12	hexane
2	Slow Cool Furnace No. 2 (1992, 16 MMBtu/hr)	0.13	0.52	0.52	0.04	6.87	0.38	5.77	8261.66	0.13	0.12	hexane
3	Slow Cool Furnace No. 3 (1992, 16 MMBtu/hr)	0.13	0.52	0.52	0.04	6.87	0.38	5.77	8261.66	0.13	0.12	hexane
8	Slab Grinder (1985)	5.94	0.59	0.59	--	--	--	--	--	0.16	0.09	manganese
Rolling Mill Operations												
9	Reheat Furnace No. 1 (1961, 300 MMBtu/hr)	2.45	9.79	9.79	0.77	360.71	7.09	108.21	154906.04	2.43	2.32	hexane
10	Reheat Furnace No. 2 (1961, 300 MMBtu/hr)	2.45	9.79	9.79	0.77	360.71	7.09	108.21	154906.04	2.43	2.32	hexane
11	Reheat Furnace No. 5 (1961, 40 MMBtu/hr)	0.33	1.31	1.31	0.10	17.18	0.94	14.43	20654.14	0.32	0.31	hexane
12	Reheat Furnace No. 6 (1961, 40 MMBtu/hr)	0.33	1.31	1.31	0.10	17.18	0.94	14.43	20654.14	0.32	0.31	hexane
13	Reheat Furnace No. 7 (1961, 40 MMBtu/hr)	0.33	1.31	1.31	0.10	17.18	0.94	14.43	20654.14	0.32	0.31	hexane
14	Reheat Furnace No. 8 (1961, 40 MMBtu/hr)	0.33	1.31	1.31	0.10	17.18	0.94	14.43	20654.14	0.32	0.31	hexane
21	Car Bottom Normalizing Furnace (1961, 26 MMBtu/hr)	0.21	0.85	0.85	0.07	11.16	0.61	9.38	13425.19	0.21	0.20	hexane
22	Slow Cool Furnace No. 1 (1991, 32 MMBtu/hr)	0.26	1.04	1.04	0.08	13.74	0.76	11.54	16523.31	0.26	0.25	hexane
23	Slow Cool Furnace No. 2 (1991, 32 MMBtu/hr)	0.26	1.04	1.04	0.08	13.74	0.76	11.54	16523.31	0.26	0.25	hexane
6	One (1) Hand Torch Scarfer	5.01	5.03	5.03	0.003	0.43	0.02	0.36	516.35	0.01	0.01	hexane
15	Rolling Mill	--	--	--	--	--	10.00	--	--	--	--	--
Heat Treat Operations												
28	Plate Mill Heat Treatment Furnace (1997, 56.5 MMBtu/hr)	0.46	1.84	1.84	0.15	43.31	1.33	20.38	29173.97	0.46	0.44	hexane
24	North Hardening Furnace (1969, 100 MMBtu/hr)	0.82	3.26	3.26	0.26	42.94	2.36	36.07	51635.35	0.81	0.77	hexane
26	South Hardening Furnace (1962, 100 MMBtu/hr)	0.82	3.26	3.26	0.26	42.94	2.36	36.07	51635.35	0.81	0.77	hexane
25	North Tempering Furnace (1969, 100 MMBtu/hr)	0.82	3.26	3.26	0.26	42.94	2.36	36.07	51635.35	0.81	0.77	hexane
27	South Tempering Furnace (1962, 100 MMBtu/hr)	0.82	3.26	3.26	0.26	42.94	2.36	36.07	51635.35	0.81	0.77	hexane
Insignificant Activities												
4	Slab Cutting and Debur Operations	3.76	3.88	3.88	0.01	2.15	0.12	1.80	2581.77	0.14	0.06	manganese
5	Slab Marking ID	0.00	0.00	0.00	--	--	2.42	--	--	--	--	--
7	Five (5) Stress Hood Furnaces	0.24	0.98	0.98	0.08	12.88	0.71	10.82	15490.60	0.24	0.23	hexane
16	Hand Ink Stenciling	0.00	0.00	0.00	--	--	1.94	--	--	--	--	--
17	Cold Ink Marking Unit	0.00	0.00	0.00	--	--	0.69	--	--	0.14	0.14	xylene
18	Coupon Cutting	0.12	0.12	0.12	--	--	--	--	--	0.003	0.002	manganese
19	Four (4) Gantry Burners	3.61	3.66	3.66	0.01	0.86	0.05	0.72	1032.71	0.11	0.05	manganese
29	Magnemag Cold Ink Marking Unit #1	0.00	0.00	0.00	--	--	0.23	--	--	0.05	0.05	xylene
30	Magnemag Cold Ink Marking Unit #2	0.00	0.00	0.00	--	--	0.46	--	--	0.09	0.09	xylene
32	Plasma Cutter	0.13	0.13	0.13	--	--	--	--	--	0.003	0.002	manganese
31	Eleven (11) Bug Burners	2.94	2.97	2.97	0.003	0.52	0.03	0.44	624.79	0.09	0.04	manganese
33	Solvents Parts Washers	--	--	--	--	--	52.12	--	--	--	--	--
	Welding and Soldering Equipment	*	*	*	--	--	--	--	*	*	*	*
	Natural Gas-Fired Space Heaters	**	**	**	**	**	**	**	**	**	**	hexane
	Fugitive Emissions	***	***	***	--	--	--	--	--	--	--	--
	Total	32.81	61.57	61.57	3.59	1081.29	100.78	502.72	719647.00	12.02	10.71	hexane
											0.25	manganese
											0.28	xylene

*Emissions not estimated. They are assumed to be negligible and will not affect the source status

**Total natural gas usage for the space heaters was not provided; however, the natural gas usage for the space heaters is included in a source-wide natural gas usage limitation

***Fugitive emissions were not estimated. The source is subject to 326 IAC 6.8-10 and the emissions are not expected to affect the source status

Appendix A: Emission Calculations
Summary - Controlled PTE

Company Name: ArcelorMittal Plate, LLC (Gary Plate)
Address City IN Zip: One North Broadway, Gary, IN 46402
Part 70 OP Renewal No.: T089-29905-00118
Reviewer: Laura Spriggs

ID #	Emission Unit	Controlled Potential to Emit (ton/yr)										Worst HAP
		PM	PM10	PM2.5	SO2	NOx	VOC	CO	GHGs	Total HAPs	Single Worst HAP	
Plate Mill Slab Prep												
1	Slow Cool Furnace No. 1 (1992, 16 MMBtu/hr)	0.13	0.52	0.52	0.04	6.87	0.38	5.77	8261.66	0.13	0.12	hexane
2	Slow Cool Furnace No. 2 (1992, 16 MMBtu/hr)	0.13	0.52	0.52	0.04	6.87	0.38	5.77	8261.66	0.13	0.12	hexane
3	Slow Cool Furnace No. 3 (1992, 16 MMBtu/hr)	0.13	0.52	0.52	0.04	6.87	0.38	5.77	8261.66	0.13	0.12	hexane
8	Slab Grinder (1985)	0.06	0.01	0.01	--	--	--	--	--	0.002	0.001	manganese
Rolling Mill Operations												
9	Reheat Furnace No. 1 (1961, 300 MMBtu/hr)	2.45	9.79	9.79	0.77	360.71	7.09	108.21	154906.04	2.43	2.32	hexane
10	Reheat Furnace No. 2 (1961, 300 MMBtu/hr)	2.45	9.79	9.79	0.77	360.71	7.09	108.21	154906.04	2.43	2.32	hexane
11	Reheat Furnace No. 5 (1961, 40 MMBtu/hr)	0.33	1.31	1.31	0.10	17.18	0.94	14.43	20654.14	0.32	0.31	hexane
12	Reheat Furnace No. 6 (1961, 40 MMBtu/hr)	0.33	1.31	1.31	0.10	17.18	0.94	14.43	20654.14	0.32	0.31	hexane
13	Reheat Furnace No. 7 (1961, 40 MMBtu/hr)	0.33	1.31	1.31	0.10	17.18	0.94	14.43	20654.14	0.32	0.31	hexane
14	Reheat Furnace No. 8 (1961, 40 MMBtu/hr)	0.33	1.31	1.31	0.10	17.18	0.94	14.43	20654.14	0.32	0.31	hexane
21	Car Bottom Normalizing Furnace (1961, 26 MMBtu/hr)	0.21	0.85	0.85	0.07	11.16	0.61	9.38	13425.19	0.21	0.20	hexane
22	Slow Cool Furnace No. 1 (1991, 32 MMBtu/hr)	0.26	1.04	1.04	0.08	13.74	0.76	11.54	16523.31	0.26	0.25	hexane
23	Slow Cool Furnace No. 2 (1991, 32 MMBtu/hr)	0.26	1.04	1.04	0.08	13.74	0.76	11.54	16523.31	0.26	0.25	hexane
6	One (1) Hand Torch Scarfer	5.01	5.03	5.03	0.00	0.43	0.02	0.36	516.35	0.01	0.01	hexane
15	Rolling Mill	--	--	--	--	--	10.00	--	--	--	--	--
Heat Treat Operations												
28	Plate Mill Heat Treatment Furnace (1997, 56.5 MMBtu/hr)	0.46	1.84	1.84	0.15	43.31	1.33	20.38	29173.97	0.46	0.44	hexane
24	North Hardening Furnace (1969, 100 MMBtu/hr)	0.82	3.26	3.26	0.26	42.94	2.36	36.07	51635.35	0.81	0.77	hexane
26	South Hardening Furnace (1962, 100 MMBtu/hr)	0.82	3.26	3.26	0.26	42.94	2.36	36.07	51635.35	0.81	0.77	hexane
25	North Tempering Furnace (1969, 100 MMBtu/hr)	0.82	3.26	3.26	0.26	42.94	2.36	36.07	51635.35	0.81	0.77	hexane
27	South Tempering Furnace (1962, 100 MMBtu/hr)	0.82	3.26	3.26	0.26	42.94	2.36	36.07	51635.35	0.81	0.77	hexane
Insignificant Activities												
4	Slab Cutting and Debur Operations	3.76	3.88	3.88	0.01	2.15	0.12	1.80	2581.77	0.14	0.06	manganese
5	Slab Marking ID	0.00	0.00	0.00	--	--	2.42	--	--	--	--	--
7	Five (5) Stress Hood Furnaces	0.24	0.98	0.98	0.08	12.88	0.71	10.82	15490.60	0.24	0.23	hexane
16	Hand Ink Stenciling	0.00	0.00	0.00	--	--	1.94	--	--	--	--	--
17	Cold Ink Marking Unit	0.00	0.00	0.00	--	--	0.69	--	--	0.14	0.14	xylene
18	Coupon Cutting	0.12	0.12	0.12	--	--	--	--	--	0.00	0.00	manganese
19	Four (4) Gantry Burners	3.61	3.66	3.66	0.01	0.86	0.05	0.72	1032.71	0.11	0.05	manganese
29	Magnemag Cold Ink Marking Unit #1	0.00	0.00	0.00	--	--	0.23	--	--	0.05	0.05	xylene
30	Magnemag Cold Ink Marking Unit #2	0.00	0.00	0.00	--	--	0.46	--	--	0.09	0.09	xylene
32	Plasma Cutter	0.13	0.13	0.13	--	--	--	--	--	0.00	0.00	manganese
31	Eleven (11) Bug Burners	2.94	2.97	2.97	0.00	0.52	0.03	0.44	624.79	0.09	0.04	manganese
33	Solvents Parts Washers	--	--	--	--	--	52.12	--	--	--	--	--
	Welding and Soldering Equipment	*	*	*	--	--	--	--	*	*	*	*
	Natural Gas-Fired Space Heaters	**	**	**	**	**	**	**	**	**	**	hexane
	Fugitive Emissions	***	***	***	--	--	--	--	--	--	--	--
	Total	26.93	60.99	60.99	3.59	1081.29	100.78	502.72	719647.00	11.86	10.71	hexane
											0.16	manganese
											0.28	xylene

*Emissions not estimated. They are assumed to be negligible and will not affect the source status

**Total natural gas usage for the space heaters was not provided; however, the natural gas usage for the space heaters is included in a source-wide natural gas usage limitation

***Fugitive emissions were not estimated. The source is subject to 326 IAC 6.8-10 and the emissions are not expected to affect the source status

Appendix A: Emission Calculations
Summary - Limited PTE

Company Name: ArcelorMittal Plate, LLC (Gary Plate)
Address City IN Zip: One North Broadway, Gary, IN 46402
Part 70 OP Renewal No.: T089-29905-00118
Reviewer: Laura Spriggs

ID #	Emission Unit	Limited Potential to Emit (ton/yr)										Worst HAP
		PM	PM10	PM2.5	SO2	NOx	VOC	CO	GHGs	Total HAPs	Single Worst HAP	
Plate Mill Slab Prep												
1	Slow Cool Furnace No. 1 (1992, 16 MMBtu/hr)	0.74*,**	2.96*,**	2.96*,**	0.23*,**	38.95*,**	2.14*,**	32.72*,**	46836.1*,**	0.74*,**	0.70*,**	hexane
2	Slow Cool Furnace No. 2 (1992, 16 MMBtu/hr)											
3	Slow Cool Furnace No. 3 (1992, 16 MMBtu/hr)											
8	Slab Grinder (1985)	5.94	0.59	0.59	--	--	--	--	--	0.16	0.09	manganese
Rolling Mill Operations												
9	Reheat Furnace No. 1 (1961, 300 MMBtu/hr)	**	**	**	**	**	**	**	**	**	**	hexane
10	Reheat Furnace No. 2 (1961, 300 MMBtu/hr)	**	**	**	**	**	**	**	**	**	**	hexane
11	Reheat Furnace No. 5 (1961, 40 MMBtu/hr)	**	**	**	**	**	**	**	**	**	**	hexane
12	Reheat Furnace No. 6 (1961, 40 MMBtu/hr)	**	**	**	**	**	**	**	**	**	**	hexane
13	Reheat Furnace No. 7 (1961, 40 MMBtu/hr)	**	**	**	**	**	**	**	**	**	**	hexane
14	Reheat Furnace No. 8 (1961, 40 MMBtu/hr)	**	**	**	**	**	**	**	**	**	**	hexane
21	Car Bottom Normalizing Furnace (1961, 26 MMBtu/hr)	**	**	**	**	**	**	**	**	**	**	hexane
22	Slow Cool Furnace No. 1 (1991, 32 MMBtu/hr)	***	***	***	***	***	***	***	***	***	***	hexane
23	Slow Cool Furnace No. 2 (1991, 32 MMBtu/hr)	***	***	***	***	***	***	***	***	***	***	hexane
6	One (1) Hand Torch Scarfer	5.00**,****	5.00**,****	5.00**,****	**	**	**	**	**	**	**	hexane
15	Rolling Mill	--	--	--	--	--	10.00	--	--	--	--	--
Heat Treat Operations												
28	Plate Mill Heat Treatment Furnace (1997, 56.5 MMBtu/hr)	0.27**,***	1.06**,***	1.06**,***	0.08**,***	24.92**,***	0.77**,***	11.73**,***	16786.4**,***	0.26**,***	0.25**,***	hexane
24	North Hardening Furnace (1969, 100 MMBtu/hr)	**	**	**	**	**	**	**	**	**	**	hexane
26	South Hardening Furnace (1962, 100 MMBtu/hr)	**	**	**	**	**	**	**	**	**	**	hexane
25	North Tempering Furnace (1969, 100 MMBtu/hr)	**	**	**	**	**	**	**	**	**	**	hexane
27	South Tempering Furnace (1962, 100 MMBtu/hr)	**	**	**	**	**	**	**	**	**	**	hexane
Insignificant Activities												
4	Slab Cutting and Debur Operations	3.72**,****	3.72**,****	3.72**,****	**	**	**	**	**	0.10**,****	0.06	manganese
5	Slab Marking ID	0.00	0.00	0.00	--	--	2.42	--	--	--	--	--
7	Five (5) Stress Hood Furnaces	**	**	**	**	**	**	**	**	**	**	hexane
16	Hand Ink Stenciling	0.00	0.00	0.00	--	--	1.94	--	--	--	--	--
17	Cold Ink Marking Unit	0.00	0.00	0.00	--	--	0.69	--	--	0.14	0.14	xylene
18	Coupon Cutting	0.12	0.12	0.12	--	--	--	--	--	0.003	0.002	manganese
19	Four (4) Gantry Burners	3.60**,****	3.60**,****	3.60**,****	**	**	**	**	**	0.10**,****	0.05	manganese
29	Magnemag Cold Ink Marking Unit #1	0.00	0.00	0.00	--	--	0.23	--	--	0.05	0.05	xylene
30	Magnemag Cold Ink Marking Unit #2	0.00	0.00	0.00	--	--	0.46	--	--	0.09	0.09	xylene
32	Plasma Cutter	0.13	0.13	0.13	--	--	--	--	--	0.003	0.002	manganese
31	Eleven (11) Bug Burners	2.93**,****	2.93**,****	2.93**,****	**	**	**	**	**	0.08**,****	0.04	manganese
33	Solvents Parts Washers	--	--	--	--	--	52.12	--	--	--	--	--
	Welding and Soldering Equipment	+	+	+	--	--	--	--	+	+	+	+
	Natural Gas-Fired Space Heaters	**	**	**	**	**	**	**	**	**	**	hexane
	Fugitive Emissions	++	++	++	--	--	--	--	--	--	--	--
	Source-wide NG Usage Limit**	10.45	41.80	41.80	3.30	981.75	30.25	462.00	661356.9	10.38	9.90	hexane
	Total	31.89	57.89	57.89	3.30	981.75	98.12	462.00	661356.9	11.11	9.90	hexane
											0.25	manganese
											0.28	xylene

Note: The total does not include limited combustion emissions from ID#s 1-3, 22, 23, and 28 - only the source-wide limited combustion emissions

*Natural gas usage for ID #s 1-3, 22, and 23 combined shall not exceed 779 MMCF per twelve (12) consecutive month period

**Site-wide natural gas usage for all combustion units shall be less than 11,000 MMCF per twelve (12) consecutive month period

***Natural gas input to ID #28 shall be limited to 279.2 MMCF per year

****Emissions shown are process emissions only. Natural gas emissions are included in source-wide natural gas usage limit

+Emissions not estimated. They are assumed to be negligible and will not affect the source status

++Fugitive emissions were not estimated. The source is subject to 326 IAC 6.8-10 and the emissions are not expected to affect the source status

Appendix A: Emission Calculations
Natural Gas Combustion: Criteria Pollutants and GHGs

Company Name: ArcelorMittal Plate, LLC (Gary Plate)
 Source Address: One North Broadway, Gary, IN 46402
 Part 70 OP Renewal No.: T089-29905-00118
 Reviewer: Laura Spriggs

Unit ID	Emissions Unit	Heat Input Capacity (MMBtu/hr)	Potential Throughput (MMCF/yr)	Criteria Pollutants						GHGs					
				PM*	PM10*	PM2.5*	SO2	NOx**	VOC	CO	CO2	N2O	CH4	GHG Mass-	CO2e
				Emission Factor in lb/MMCF for ≤ 100 MMBtu/hr	Emission Factor in lb/MMCF for > 100 MMBtu/hr	Emission Factor in lb/MMCF for ≤ 100 MMBtu/hr	Emission Factor in lb/MMCF for > 100 MMBtu/hr	Emission Factor in lb/MMCF for ≤ 100 MMBtu/hr	Emission Factor in lb/MMCF for > 100 MMBtu/hr	Emission Factor in lb/MMCF for ≤ 100 MMBtu/hr	Emission Factor in lb/MMCF for > 100 MMBtu/hr	Emission Factor in lb/MMCF for ≤ 100 MMBtu/hr	Emission Factor in lb/MMCF for > 100 MMBtu/hr	Emission Factor in lb/MMCF for ≤ 100 MMBtu/hr	Emission Factor in lb/MMCF for > 100 MMBtu/hr
				1.9	7.6	7.6	0.6	100.0	5.5	84.0	120000	0.64	2.3		
				1.9	7.6	7.6	0.6	280.0	5.5	84.0	120000	0.64	2.3		
				Potential Emissions (tons/yr)											
1	Slow Cool Furnace No. 1	16	137.41	0.13	0.52	0.52	0.04	6.87	0.38	5.77	8244.71	0.04	0.16	8244.9	8261.7
2	Slow Cool Furnace No. 2	16	137.41	0.13	0.52	0.52	0.04	6.87	0.38	5.77	8244.71	0.04	0.16	8244.9	8261.7
3	Slow Cool Furnace No. 3	16	137.41	0.13	0.52	0.52	0.04	6.87	0.38	5.77	8244.71	0.04	0.16	8244.9	8261.7
9	Reheat Furnace No. 1	300	2576.47	2.45	9.79	9.79	0.77	360.71	7.09	108.21	154588.24	0.82	2.96	154592.0	154906.0
10	Reheat Furnace No. 2	300	2576.47	2.45	9.79	9.79	0.77	360.71	7.09	108.21	154588.24	0.82	2.96	154592.0	154906.0
11	Reheat Furnace No. 5	40	343.53	0.33	1.31	1.31	0.10	17.18	0.94	14.43	20611.76	0.11	0.40	20612.3	20654.1
12	Reheat Furnace No. 6	40	343.53	0.33	1.31	1.31	0.10	17.18	0.94	14.43	20611.76	0.11	0.40	20612.3	20654.1
13	Reheat Furnace No. 7	40	343.53	0.33	1.31	1.31	0.10	17.18	0.94	14.43	20611.76	0.11	0.40	20612.3	20654.1
14	Reheat Furnace No. 8	40	343.53	0.33	1.31	1.31	0.10	17.18	0.94	14.43	20611.76	0.11	0.40	20612.3	20654.1
21	Car Bottom Normalizing Furnace	26	223.29	0.21	0.85	0.85	0.07	11.16	0.61	9.38	13397.65	0.07	0.26	13398.0	13425.2
22	Slow Cool Furnace No. 1	32	274.82	0.26	1.04	1.04	0.08	13.74	0.76	11.54	16489.41	0.09	0.32	16489.8	16523.3
23	Slow Cool Furnace No. 2	32	274.82	0.26	1.04	1.04	0.08	13.74	0.76	11.54	16489.41	0.09	0.32	16489.8	16523.3
28	Plate Mill Heat Treatment Furnace	56.5	485.24	0.46	1.84	1.84	0.15	43.31	1.33	20.38	29114.12	0.16	0.56	29114.8	29174.0
24	North Hardening Furnace	100	858.82	0.82	3.26	3.26	0.26	42.94	2.36	36.07	51529.41	0.27	0.99	51530.7	51635.3
26	South Hardening Furnace	100	858.82	0.82	3.26	3.26	0.26	42.94	2.36	36.07	51529.41	0.27	0.99	51530.7	51635.3
25	North Tempering Furnace	100	858.82	0.82	3.26	3.26	0.26	42.94	2.36	36.07	51529.41	0.27	0.99	51530.7	51635.3
27	South Tempering Furnace	100	858.82	0.82	3.26	3.26	0.26	42.94	2.36	36.07	51529.41	0.27	0.99	51530.7	51635.3
Insignificant Activities															
4	Slab Cutting & Deburr Operations	5	42.94	0.04	0.16	0.16	0.01	2.15	0.12	1.80	2576.47	0.01	0.05	2576.5	2581.8
6	Hand Torch Scarfing	1	8.59	0.01	0.03	0.03	0.00	0.43	0.02	0.36	515.29	0.00	0.01	515.3	516.4
7	Five (5) Stress Hood Furnaces	30	257.65	0.24	0.98	0.98	0.08	12.88	0.71	10.82	15458.82	0.08	0.30	15459.2	15490.6
31	Bug Burners (11)	1.21	10.39	0.01	0.04	0.04	0.00	0.52	0.03	0.44	623.51	0.00	0.01	623.5	624.8
19	Plate Cutting (Gantry Burners) (4)	2	17.18	0.02	0.07	0.07	0.01	0.86	0.05	0.72	1030.59	0.01	0.02	1030.6	1032.7
	Space Heaters	+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
Total:				11.37	45.48	45.48	3.59	1081.29	32.92	502.72	718170.56	3.83	13.76	718188.2	719647.0

Unit ID	Emissions Unit	Heat Input Capacity (MMBtu/hr)	Limited Throughput (MMCF/yr)	Limited Emissions (tons/yr)											
1	Slow Cool Furnace No. 1	16	779	0.74	2.96	2.96	0.23	38.95	2.14	32.72	46740.00	0.25	0.90	46741.15	46836.09
2	Slow Cool Furnace No. 2	16													
3	Slow Cool Furnace No. 3	16													
22	Slow Cool Furnace No. 1	32													
23	Slow Cool Furnace No. 2	32													
28	Plate Mill Heat Treatment Furnace	56.5	279.20	0.27	1.06	1.06	0.08	24.92	0.77	11.73	16752.00	0.09	0.32	16752.4	16786.4
Multiple	Sitewide Natural Gas Usage Limit		11000.00	10.45	41.80	41.80	3.30	981.75	30.25	462.00	660000.00	3.52	12.65	660016.2	661356.9

Emission Factors are from AP-42, Tables 1.4-1 and 1.4-2.

*PM emission factor is filterable PM only. PM10 and PM2.5 emission factors are filterable and condensable PM combined.

**Emission Factors for NOx (≤ 100 MMBtu/hr): Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

**Emission Factors for NOx (> 100 MMBtu/hr): Uncontrolled = 280 (pre-NSPS) or 190 (post-NSPS), Low NOx Burner = 140, Flue gas recirculation = 100 (See Table 1.4-1)

**Emission Factor for NOx for ID #28, Plate Mill Heat Treatment Furnace = 0.175 lb/MMBtu based on burner manufacturer's guarantee.

+ Total capacity for space heaters was not provided, but they are included in the site-wide natural gas usage limit.

Methodology

Heating Value of Natural Gas is assumed to be 1020 MMBtu/MMCF

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) * 8,760 hrs/yr * 1 MMCF/1,020 MMBtu

Potential Emission (tons/yr) = Throughput (MMCF/yr) * Emission Factor (lb/MMCF) * (1 ton/2,000 lb)

GHGs:

GHG Mass-Based (ton/yr) = CO2 (ton/yr) + N2O (ton/yr) + CH4 (ton/yr)

$$CO2e = \sum_{i=1}^n GHG_i \cdot GWP_i$$

Where: CO2e = carbon dioxide equivalent (ton/yr)
 GHGi = mass emission rate of each greenhouse gas (ton/yr)
 GWPi = global warming potential for each greenhouse gas
 n = number of greenhouse gases emitted
 GWPs from 40 CFR 98, Subpart A, Table A-1: 1 for CO2, 21 for CH4, 310 for N2O

Appendix A: Emission Calculations
Natural Gas Combustion: HAPs

Company Name: ArcelorMittal Plate, LLC (Gary Plate)
 Source Address: One North Broadway, Gary, IN 46402
 Part 70 OP Renewal No.: T089-29905-00118
 Reviewer: Laura Spriggs

Unit ID	Emission Unit	Emission Factor (lb/MMCF)		HAPs - Organics					HAPs - Metals					Total HAPs
		Heat Input Capacity (MMBtu/hr)	Potential Throughput (MMCF/yr)	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene	Lead	Cadmium	Chromium	Manganese	Nickel	
				2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03	1.8880
				Potential Emissions (tons/yr)										
1	Slow Cool Furnace No. 1	16	137.412	1.4E-04	8.2E-05	5.2E-03	1.2E-01	2.3E-04	3.4E-05	7.6E-05	9.6E-05	2.6E-05	1.4E-04	1.3E-01
2	Slow Cool Furnace No. 2	16	137.412	1.4E-04	8.2E-05	5.2E-03	1.2E-01	2.3E-04	3.4E-05	7.6E-05	9.6E-05	2.6E-05	1.4E-04	1.3E-01
3	Slow Cool Furnace No. 3	16	137.412	1.4E-04	8.2E-05	5.2E-03	1.2E-01	2.3E-04	3.4E-05	7.6E-05	9.6E-05	2.6E-05	1.4E-04	1.3E-01
9	Reheat Furnace No. 1	300	2576.471	2.7E-03	1.5E-03	9.7E-02	2.3E+00	4.4E-03	6.4E-04	1.4E-03	1.8E-03	4.9E-04	2.7E-03	2.4E+00
10	Reheat Furnace No. 2	300	2576.471	2.7E-03	1.5E-03	9.7E-02	2.3E+00	4.4E-03	6.4E-04	1.4E-03	1.8E-03	4.9E-04	2.7E-03	2.4E+00
11	Reheat Furnace No. 5	40	343.529	3.6E-04	2.1E-04	1.3E-02	3.1E-01	5.8E-04	8.6E-05	1.9E-04	2.4E-04	6.5E-05	3.6E-04	3.2E-01
12	Reheat Furnace No. 6	40	343.529	3.6E-04	2.1E-04	1.3E-02	3.1E-01	5.8E-04	8.6E-05	1.9E-04	2.4E-04	6.5E-05	3.6E-04	3.2E-01
13	Reheat Furnace No. 7	40	343.529	3.6E-04	2.1E-04	1.3E-02	3.1E-01	5.8E-04	8.6E-05	1.9E-04	2.4E-04	6.5E-05	3.6E-04	3.2E-01
14	Reheat Furnace No. 8	40	343.529	3.6E-04	2.1E-04	1.3E-02	3.1E-01	5.8E-04	8.6E-05	1.9E-04	2.4E-04	6.5E-05	3.6E-04	3.2E-01
21	Car Bottom Normalizing Furnace	26	223.294	2.3E-04	1.3E-04	8.4E-03	2.0E-01	3.8E-04	5.6E-05	1.2E-04	1.6E-04	4.2E-05	2.3E-04	2.1E-01
22	Slow Cool Furnace No. 1	32	274.824	2.9E-04	1.6E-04	1.0E-02	2.5E-01	4.7E-04	6.9E-05	1.5E-04	1.9E-04	5.2E-05	2.9E-04	2.6E-01
23	Slow Cool Furnace No. 2	32	274.824	2.9E-04	1.6E-04	1.0E-02	2.5E-01	4.7E-04	6.9E-05	1.5E-04	1.9E-04	5.2E-05	2.9E-04	2.6E-01
28	Plate Mill Heat Treatment Furnace	56.5	485.235	5.1E-04	2.9E-04	1.8E-02	4.4E-01	8.2E-04	1.2E-04	2.7E-04	3.4E-04	9.2E-05	5.1E-04	4.6E-01
24	North Hardening Furnace	100	858.824	9.0E-04	5.2E-04	3.2E-02	7.7E-01	1.5E-03	2.1E-04	4.7E-04	6.0E-04	1.6E-04	9.0E-04	8.1E-01
26	South Hardening Furnace	100	858.824	9.0E-04	5.2E-04	3.2E-02	7.7E-01	1.5E-03	2.1E-04	4.7E-04	6.0E-04	1.6E-04	9.0E-04	8.1E-01
25	North Tempering Furnace	100	858.824	9.0E-04	5.2E-04	3.2E-02	7.7E-01	1.5E-03	2.1E-04	4.7E-04	6.0E-04	1.6E-04	9.0E-04	8.1E-01
27	South Tempering Furnace	100	858.824	9.0E-04	5.2E-04	3.2E-02	7.7E-01	1.5E-03	2.1E-04	4.7E-04	6.0E-04	1.6E-04	9.0E-04	8.1E-01
Insignificant Activities														
4	Slab Cutting & Deburr Operations	5	42.941	4.5E-05	2.6E-05	1.6E-03	3.9E-02	7.3E-05	1.1E-05	2.4E-05	3.0E-05	8.2E-06	4.5E-05	4.1E-02
6	Hand Torch Scarfing	1	8.588	9.0E-06	5.2E-06	3.2E-04	7.7E-03	1.5E-05	2.1E-06	4.7E-06	6.0E-06	1.6E-06	9.0E-06	8.1E-03
7	Five (5) Stress Hood Furnaces	30	257.647	2.7E-04	1.5E-04	9.7E-03	2.3E-01	4.4E-04	6.4E-05	1.4E-04	1.8E-04	4.9E-05	2.7E-04	2.4E-01
31	Sample Coupon/Plate Cutting (Bug)	0.88	7.558	7.9E-06	4.5E-06	2.8E-04	6.8E-03	1.3E-05	1.9E-06	4.2E-06	5.3E-06	1.4E-06	7.9E-06	7.1E-03
19	Plate Cutting (Gantry Burners) (4)	2	17.176	1.8E-05	1.0E-05	6.4E-04	1.5E-02	2.9E-05	4.3E-06	9.4E-06	1.2E-05	3.3E-06	1.8E-05	1.6E-02
	Space Heaters	+	0.000	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Total:			1.3E-02	7.2E-03	4.5E-01	10.77	2.0E-02	3.0E-03	6.6E-03	8.4E-03	2.3E-03	1.3E-02	11.30

Unit ID	Emissions Unit	Heat Input Capacity (MMBtu/hr)	Limited Throughput (MMCF/yr)	Limited Emissions (tons/yr)										
1	Slow Cool Furnace No. 1	16	779	8.18E-04	4.67E-04	2.92E-02	7.01E-01	1.32E-03	1.95E-04	4.28E-04	5.45E-04	1.48E-04	8.18E-04	7.35E-01
2	Slow Cool Furnace No. 2	16												
3	Slow Cool Furnace No. 3	16												
22	Slow Cool Furnace No. 1	32												
23	Slow Cool Furnace No. 2	32												
28	Plate Mill Heat Treatment Furnace	56.5	279.20	2.93E-04	1.68E-04	1.05E-02	2.51E-01	4.75E-04	6.98E-05	1.54E-04	1.95E-04	5.30E-05	2.93E-04	2.64E-01
Multiple	Sitewide Natural Gas Usage Limit		11000.00	1.16E-02	6.60E-03	4.13E-01	9.90E+00	1.87E-02	2.75E-03	6.05E-03	7.70E-03	2.09E-03	1.16E-02	1.04E+01

Emission Factors are from AP-42, Tables 1.4-3 and 1.4-4.
 The five highest organic and metal HAPs emission factors are provided above. Additional HAPs are available in the AP-42 tables referenced above.
 Total HAPs is the sum of all HAP emission factors listed in AP-42 Tables 1.4-3 and 1.4-4.

Methodology
 See previous page

Appendix A: Emission Calculations
Slab Grinding Operations

Company Name: ArcelorMittal Plate, LLC (Gary Plate)
Source Address: One North Broadway, Gary, IN 46402
Part 70 OP Renewal No.: T089-29905-00118
Reviewer: Laura Spriggs

ID #	Emission Unit	Maximum Metal Throughput (ton/yr)	Uncontrolled PM10 Emission Factor (lb/ton)	Uncontrolled PM Emission Factor (lb/ton)	Control (%)	Uncontrolled PTE PM10 and PM2.5 (ton/yr)	Uncontrolled PTE PM (ton/yr)	Controlled PTE PM10 and PM2.5 (ton/yr)	Controlled PTE PM (ton/yr)
8	Slab Grinder (1985)	264000	0.0045	0.045	99.0%	0.59	5.94	0.006	0.059

Metal HAPs

Percent by Weight			Uncontrolled PTE (ton/yr)			Controlled PTE (ton/yr)		
Mn	Cr	Ni	Mn	Cr	Ni	Mn	Cr	Ni
1.50%	0.65%	0.55%	0.089	0.039	0.033	0.0009	0.0004	0.0003

Methodology

Uncontrolled Emission Factor for PM10 was taken from *AIRS Facility Subsystem Source Classification Codes and Emission Factor Listing for Criteria Air Pollutants*, EPA 450/4-90-003, March 1990 for Steel Foundries, Finishing Operations (SCC# 3-04-007-15).

Uncontrolled PM Emission Factor is estimated at ten times the Uncontrolled PM10 Emission Factor based on grinding/cleaning operations for grey iron foundries (SCC # 3-04-003-40).

Uncontrolled PTE (ton/yr) = Maximum Metal Throughput (ton/yr) x Uncontrolled Emission Factor (lb/ton) x (1 ton/2000 lb)

Controlled PTE (ton/yr) = Uncontrolled PTE (ton/yr) x (1 - Control Efficiency)

Appendix A: Emission Calculations
Rolling Mill Operations

Company Name: ArcelorMittal Plate, LLC (Gary Plate)
 Source Address: One North Broadway, Gary, IN 46402
 Part 70 OP Renewal No.: T089-29905-00118
 Reviewer: Laura Spriggs

ID #	Emission Unit	Maximum Metal Throughput (ton/yr)	VOC Emission Factor (lb/ton)	Potential VOC Emissions (ton/yr)
15	Rolling Mill	1000000	0.02	10.0

Methodology

VOC Emission Factor based on emissions from hot rolling operations that do not use rolling oils at Inland Steel, Indiana Harbor Works (now ArcelorMittal Indiana Harbor, LLC) as reported in *Volatilized Lubricant Emissions from Steel Rolling Operations*, EPA-600/2-80-105, May 1980.

Potential VOC Emissions (ton/yr) = Maximum Metal Throughput (ton/yr) x Emission Factor (lb/ton) x (1 ton/2000 lb)

No HAPs are listed on the Lubricant MSDS.

**Appendix A: Emission Calculations
Flame Cutting and Scarfing Operations**

Company Name: ArcelorMittal Plate, LLC (Gary Plate)
Source Address: One North Broadway, Gary, IN 46402
Part 70 OP Renewal No.: T089-29905-00118
Reviewer: Laura Spriggs

Cutting

ID #	Emission Unit	Est. Max Metal Cutting Rate (in/yr)	Average Cut Thickness (in)	EFs (lb pollutant/1,000 inches cut, 1" thick)*	Process Emissions (ton/yr)				
				PM/PM10/PM2.5	PM/PM10/PM2.5	Mn (1.5 wt%)	Cr (0.65 wt%)	Ni (0.55 wt%)	Total HAPs
4	Slab Cutting Bug Burners (daughter slabs)	7599924	12	0.0815	3.72	0.056	0.024	0.020	0.100
31	Bug Burners (daughter plates)	48000000	1.5	0.0815	2.93	0.044	0.019	0.016	0.079
19	Gantry Burners (daughter plates)	58830451	1.5	0.0815	3.60	0.054	0.023	0.020	0.097
18	Bug Burners (coupon cutting at Plate Mill)	4000000	0.75	0.0815	0.12	0.002	0.001	0.001	0.003
32	Bug Burners/Plasma Cutter (coupon cutting at Heat Treat)	4174447	0.75	0.0815	0.13	0.002	0.001	0.001	0.003

Methodology

PM/PM10/PM2.5 Emission Factor from *Section 313 Reporting Issue Paper: Clarification and Guidance for the Metal Fabrication Industry*, U.S. EPA, January 1990.

PM/PM10/PM2.5 Emissions (ton/yr) = Max Metal Cutting Rate (in/yr) * Cut Thickness (in) * EF (lb pollutant/1000 in cut, 1" thick) * (1 ton/2000 lb)

Mn, Cr, Ni Emissions (ton/yr) = PM/PM10/PM2.5 Emissions (ton/yr) x HAP Metal Wt. %

HAP Metal Wt % is worst case as provided by the Permittee (1.5 wt% Mn, 0.65 wt% Cr, 0.55 wt% Ni)

Scarfing

ID #	Emission Unit	Maximum Metal Throughput (ton/yr)	PM/PM10/PM2.5 Emission Factor (lb/ton)	PTE PM/PM10/PM2.5 (ton/yr)
6	Hand Torch Scarfing	1000000	0.01	5.0

Methodology

PM Emission Factor based on Uncontrolled Machine Scarfing for Iron and Steel Mills (AP-42, Table 12.5-1). Machine scarfing occurs across the total surface. Hand scarfing occurs across one tenth of the surface area. The hand torch scarfing emission factor used is 10% of that listed for machine scarfing. PM10 and PM2.5 are assumed to equal PM emissions.

PTE PM/PM10/PM2.5 (ton/yr) = Maximum Metal Throughput (ton/yr) x Emission Factor (lb/ton) x (1 ton/2000 lb)

Appendix A: Emission Calculations
Degreasing Emissions

Company Name: ArcelorMittal Plate, LLC (Gary Plate)
 Source Address: One North Broadway, Gary, IN 46402
 Part 70 OP Renewal No.: T089-29905-00118
 Reviewer: Laura Spriggs

ID #	Emission Unit	Solvent	Consumption (gal/day)	Density (lb/gal)	Vapor Pressure at 100 °F (mm Hg)	Wt% VOC	PTE VOC (ton/yr)
33	Solvent Parts Washers	Safety Kleen Premium Solvent	42	6.8	0.6	100%	52.122

PTE VOC (ton/yr) = Consumption (gal/day) x Density (lb/gal) x Wt% VOC x (365 day/yr) x (1 ton/2000 lb)

Appendix A: Emission Calculations
Coating Operations

Company Name: ArcelorMittal Plate, LLC (Gary Plate)
Source Address: One North Broadway, Gary, IN 46402
Part 70 OP Renewal No.: T089-29905-00118
Reviewer: Laura Spriggs

Unit	Material	Maximum Usage (gal/yr)	Gram VOC per liter of coating	Pound of VOC per gallon of coating	PTE VOC (ton/yr)	Transfer Efficiency	PTE PM/PM10/PM2.5
5 - Slab Marking ID	USI Stencil Ink	643	900	7.52	2.42	100%	0
16 - Hand Ink Stenciling	USI Stencil Ink	515	900	7.52	1.94	100%	0
17 - Cold Ink Marking Unit	Cold Marker Paint Metal Mark 4B-AD	1386	120	1.00	0.69	100%	0
29 - Magnemag Cold Ink Marking Unit #1	Cold Marker Paint Metal Mark 4B-AD	462	120	1.00	0.23	100%	0
30 - Magnemag Cold Ink Marking Unit #2	Cold Marker Paint Metal Mark 4B-AD	924	120	1.00	0.46	100%	0

Methodology

Maximum Usage provided by Permittee

Gram VOC per liter of coating based on MSDS

Pound of VOC per gallon of coating = (g/l) x (1 lb/453.6 g) x (3.79 l/gal)

PTE VOC (ton/yr) = Maximum Usage (gal/yr) x (lb VOC/gal coating) x (1 ton/2000 lb)

Transfer Efficiencies are 100% - therefore, no overspray (PM/PM10/PM2.5) is emitted (the units use hand stencil or are dot matrix and print as labels)

HAPs

Unit	Material	Maximum Usage (gal/yr)	Density (lb/gal)	Weight % Xylene	PTE Xylene (ton/yr)
5 - Slab Marking ID	USI Stencil Ink	643	10.50	0.00%	0.00
16 - Hand Ink Stenciling	USI Stencil Ink	515	10.50	0.00%	0.00
17 - Cold Ink Marking Unit	Cold Marker Paint Metal Mark 4B-AD	1386	11.93	1.70%	0.14
29 - Magnemag Cold Ink Marking Unit #1	Cold Marker Paint Metal Mark 4B-AD	462	11.93	1.70%	0.05
30 - Magnemag Cold Ink Marking Unit #2	Cold Marker Paint Metal Mark 4B-AD	924	11.93	1.70%	0.09

Methodology

Maximum Usage provided by Permittee

Density and Weight % HAP based on MSDS

PTE HAP (ton/yr) = Maximum Usage (gal/yr) x Density (lb/gal) x (1 ton/2000 lb) x wt. % HAP



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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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

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

TO: Ames N Hazlett
ArcelorMittal Plate, LLC(Gary Plate)
1 N Broadway Ave
Gary, IN 46402

DATE: April 2, 2012

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

SUBJECT: Final Decision
Title V
089-29905-00118

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

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

A copy of the final decision and supporting materials has also been sent via standard mail to:
Rich Guerra (ArcelorMittal Plate, LLC)
OAQ Permits Branch Interested Parties List

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

Final Applicant Cover letter.dot 11/30/07



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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Toll Free (800) 451-6027
www.idem.IN.gov

April 2, 2012

TO: Gary Public Library

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

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

Applicant Name: ArcelorMittal Plate, LLC (Gary Plate)
Permit Number: 089-29905-00118

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

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

Enclosures
Final Library.dot 11/30/07



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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

TO: Interested Parties / Applicant

DATE: April 2, 2012

RE: ArcelorMittal Plate, LLC (Gary Plate) / 089-29905-00118

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

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

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

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

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

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

Enclosures
CD Memo.dot 11/14/08

Mail Code 61-53

IDEM Staff	MIDENNY 04/02/2012 ArcelorMittal Plate, LLC(Gary Plate) 089-29905-00118 (final)		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
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2		John Mengel COO ArcelorMittal Plate, LLC(Gary Plate) 250 W US Hwy 12 Burns Harbor IN 46304-9745 (RO CAATS)										
3		East Chicago City Council 4525 Indianapolis Blvd East Chicago IN 46312 (Local Official)										
4		Gary - Hobart Water Corp 650 Madison St, P.O. Box M486 Gary IN 46401-0486 (Affected Party)										
5		Gary Mayors Office 401 Broadway # 203 Gary IN 46402 (Local Official)										
6		Gary Public Library 220 W 5th Avenue Gary IN 46402 (Library)										
7		Lake County Health Department-Gary 1145 W. 5th Ave Gary IN 46402-1795 (Health Department)										
8		WJOB / WZVN Radio 6405 Olcott Ave Hammond IN 46320 (Affected Party)										
9		Laurence A. McHugh Barnes & Thornburg 100 North Michigan South Bend IN 46601-1632 (Affected Party)										
10		Shawn Sobocinski 3229 E. Atlanta Court Portage IN 46368 (Affected Party)										
11		Ms. Carolyn Marsh Lake Michigan Calumet Advisory Council 1804 Oliver St Whiting IN 46394-1725 (Affected Party)										
12		Mark Coleman 9 Locust Place Ogden Dunes IN 46368 (Affected Party)										
13		Mr. Chris Hernandez Pipefitters Association, Local Union 597 8762 Louisiana St., Suite G Merrillville IN 46410 (Affected Party)										
14		Craig Hogarth 7901 West Morris Street Indianapolis IN 46231 (Affected Party)										
15		Lake County Commissioners 2293 N. Main St, Building A 3rd Floor Crown Point IN 46307 (Local Official)										

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Mail Code 61-53

IDEM Staff	MIDENNY 04/02/2012 ArcelorMittal Plate, LLC(Gary Plate) 089-29905-00118 (final)		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		Anthony 2006 E. 140th Street East Chicago IN 46312 (Affected Party)										
2		Barbara G. Perez 506 Lilac Street East Chicago IN 46312 (Affected Party)										
3		Mr. Robert Garcia 3733 Parrish Avenue East Chicago IN 46312 (Affected Party)										
4		Ms. Karen Kroczek 8212 Madison Ave Munster IN 46321-1627 (Affected Party)										
5		Joseph Hero 11723 S Oakridge Drive St. John IN 46373 (Affected Party)										
6		Gary City Council 401 Broadway # 209 Gary IN 46402 (Local Official)										
7		Mr. Larry Davis 268 South, 600 West Hebron IN 46341 (Affected Party)										
8		Gitte Laasby Post Tribune 1433 E. 83rd Ave Merrillville IN 46410 (Affected Party)										
9		Susan Severtson City of Gary Law Dept. 401 Broadway 4th Floor Gary IN 46402 (Local Official)										
10		Rich Guerra ArcelorMittal Burns Harbor 250 W US Hwy 12 Burns Harbor IN 46304 (Source – addl contact)										
11												
12												
13												
14												
15												

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