



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: June 9, 2010

RE: ArcelorMittal Indiana Harbor LLC / 089-29113-00318

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

Notice of Decision – Approval

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 326 IAC 2, this approval was effective immediately upon submittal of the application.

If you wish to challenge this decision, IC 4-21.5-3-7 requires that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) calendar days from the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

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

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

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

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

Enclosures
FNPER-AM.dot12/3/07



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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Mr. Kevin Doyle
ArcelorMittal Indiana Harbor, LLC
3210 Watling Street MC8-130
East Chicago, Indiana 46312

June 9, 2010

Re: AA 089-29113-00318
Amendment to SSM No. 089-26477-00318

Dear Mr. Doyle:

ArcelorMittal Indiana Harbor, LLC was issued a Significant Source Modification No. 089-26477-00318 on November 17, 2008 for the construction of the following emission units:

- (a) One (1) pulverized coal injection (PCI) system, comprised of the following facilities, process equipment, and operational practices:
- (1) Receiving:
 - (A) Raw Coal Railcar Unloading System, approved for construction in 2008, identified as RC01, with a maximum capacity of 1,500 tons per hour, using partial enclosure as control, exhausting to the atmosphere;
 - (B) Raw Coal Truck Unloading System, approved for construction in 2008, identified as RC02, with a maximum capacity of 170 tons per hour, exhausting to the atmosphere;
 - (C) Raw Coal Pile Reclaim System, approved for construction in 2008, identified as RC03, with a maximum capacity of 450 tons per hour, exhausting to the atmosphere;
 - (D) Coal Truck Haul Roads, identified as CF01, using water flushing and sweeping as control, exhausting to the atmosphere;
 - (E) One (1) Coal Conveyor, approved for construction in 2008, identified as CC01, with a maximum capacity of 1,500 tons per hour, using covers as control, exhausting to the atmosphere;
 - (F) One (1) Coal Stacker, approved for construction in 2008, identified as CC02, with a maximum capacity of 1,500 tons per hour, using covers as control, exhausting to the atmosphere;

- (G) One (1) Coal Conveyor, approved for construction in 2008, identified as CC03, with a maximum capacity of 450 tons per hour, using covers as control, exhausting to the atmosphere;
 - (H) One (1) Coal Conveyor, approved for construction in 2008, identified as CC04, with a maximum capacity of 450 tons per hour, using covers as control, exhausting to the atmosphere;
 - (I) One (1) Coal Conveyor, approved for construction in 2008, identified as CC05, with a maximum capacity of 450 tons per hour, using covers as control, exhausting to the atmosphere;
 - (J) One (1) Coal Storage Pile Area, approved for construction in 2008, identified as CF02, covering a nominal maximum area of 116,000 square feet, exhausting to the atmosphere;
 - (K) Front end wheel loaders with each having a minimum of an eight (8) cubic yard bucket and a vehicle weight of 100,000 lbs traveling on paved and unpaved roads, such that the use of any larger capacity wheel loader would be acceptable since it would reduce vehicle miles traveled and fugitive emissions; and
 - (L) Thaw Shed Heater, approved for construction in 2008, identified as RC04, with a maximum capacity of 9.45 MMBtu per hour, exhausting to the atmosphere; and
- (2) Grinding & Drying Plant:
- (A) Raw Coal Storage Bin, approved for construction in 2008, identified as PC01, with a maximum capacity of 700 tons, using bag filters as control, exhausting to stack PC01;
 - (B) Coal Grinder and Dryer, approved for construction in 2008, identified as PC02, with a maximum capacity of 85 tons of raw coal per hour, using Mill Bag Filter Separator as integral part of the process for control, exhausting to stack PC02;
 - (C) Coal Dryer Auxiliary Heater, approved for construction in 2008, identified as PC03, with a maximum capacity of 50 MMBtu per hour, exhausting to the atmosphere; and
 - (D) Pulverized Coal Storage Bin, approved for construction in 2008, identified as PC04, with a maximum capacity of 650 tons, using bag filters as control, and exhausting to stack PC04.

A letter requesting an extension of the 18-month commencement of construction deadline for these emission units was submitted on March 24, 2010. The construction deadline found in 326 IAC 2-1.1-9(5) and 326 IAC 2-7-10.5(i) will be extended based on the following findings:

- (a) There are no new additional state rules and federal rules determined to be applicable to the above emission units.

ArcelorMittal Indiana Harbor, LLC
East Chicago, Indiana
Reviewer: Aida De Guzman

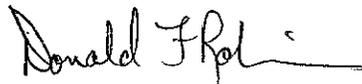
Page 3 of 3
Administrative Amendment No. 089-29113-00318

- (b) All conditions in Significant Source Modification No. 089-26477-00318 shall remain unchanged and in effect.

Based on the above findings the commencement of construction for the above emissions units shall be extended to May 18, 2012.

Please attach a copy of this Administrative Amendment to Significant Source Modification No. 089-26477-00318.

Sincerely,



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

APD

cc: File - Lake County
Lake County Health Department
Compliance and Enforcement Branch
Permit Administration Support Section

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

Technical Support Document (TSD) for an Administrative Amendment to a
Part 70 Operating Permit

Source Description and Location

Source Name:	ArcelorMittal Indiana Harbor, LLC
Source Location:	3001 Dickey Road, East Chicago, IN 46312
County:	Lake
SIC Code:	3312
Operation Permit No.:	T089-7099-00318
Operation Permit Issuance Date:	December 7, 2004
Administrative Amendment No.:	089-29113-00318
Permit Reviewer:	Aida De Guzman

Existing Approvals

The source was issued Part 70 Operating Permit No. T089-7099-00318 on December 7, 2004. The source has since received the following approvals:

- (a) First Administrative Amendment No.: 089-21088-00318, issued on July 19, 2005;
- (b) First Minor Permit Modification No.: 089-20921-00318, issued on September 8, 2005;
- (c) Second Minor Permit Modification No.: 089-23361-00318 issued September 22, 2006;
- (d) First Significant Permit Modification No.: 089-24076-00318, issued on May 4, 2007;
- (e) Second Administrative Amendment No.: 089-26376-00318, issued on May 16, 2008.
- (f) Second Significant Permit Modification No.: 089-26506-00318, issued on December 5, 2008; and
- (g) Third Minor Permit Modification No. 089-27280-00318, issued on March 24, 2009.

Source Status

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

Pollutant	Emissions (ton/yr)
PM	>100
PM ₁₀	>100
PM _{2.5}	>100
SO ₂	>100
VOC	>100
CO	>100
NO _x	>100
Single HAP	>10
Combined HAPs	>25

- (a) This existing source is a major stationary source, under PSD (326 IAC 2-2), because a regulated pollutant is emitted at a rate of 100 tons per year or more, and it is one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(gg)(1).
- (b) This existing source is a major stationary source, under 326 IAC 2-3, Emissions Offset rules since direct PM_{2.5} and SO₂ are emitted at a rate of 100 tons per year or more.
- (c) This existing source is a major source of HAPs, as defined in 40 CFR 63.2, because HAP emissions are greater than ten (10) tons per year for a single HAP and greater than twenty-five (25) tons per year for a combination of HAPs. Therefore, this source is a major source under Section 112 of the Clean Air Act (CAA).

Actual Emissions

The following table shows the actual emissions from the source. This information reflects the 2006 OAQ emission data.

Pollutant	Actual Emissions (ton/yr)
PM ₁₀	1,121
PM and PM _{2.5}	not reported
SO ₂	2,032
VOC	206
CO	16,434
NO _x	1,885
Lead	13.55
Single HAP/Total HAPs	not reported

Description of Proposed Amendment

The Office of Air Quality (OAQ) has reviewed a letter submitted by ArcelorMittal Indiana Harbor, LLC on March 24, 2010, requesting an extension of the 18-month commencement of construction deadline for the following emission units permitted for construction in Significant Source Modification No. 089-26477-00318, issued on November 17, 2008:

- (a) One (1) pulverized coal injection (PCI) system, comprised of the following facilities, process equipment, and operational practices:
 - (1) Receiving:
 - (A) Raw Coal Railcar Unloading System, approved for construction in 2008, identified as RC01, with a maximum capacity of 1,500 tons per hour, using partial enclosure as control, exhausting to the atmosphere;
 - (B) Raw Coal Truck Unloading System, approved for construction in 2008, identified as RC02, with a maximum capacity of 170 tons per hour, exhausting to the atmosphere;
 - (C) Raw Coal Pile Reclaim System, approved for construction in 2008, identified as RC03, with a maximum capacity of 450 tons per hour, exhausting to the atmosphere;
 - (D) Coal Truck Haul Roads, identified as CF01, using water flushing and sweeping as control, exhausting to the atmosphere;

- (E) One (1) Coal Conveyor, approved for construction in 2008, identified as CC01, with a maximum capacity of 1,500 tons per hour, using covers as control, exhausting to the atmosphere;
 - (F) One (1) Coal Stacker, approved for construction in 2008, identified as CC02, with a maximum capacity of 1,500 tons per hour, using covers as control, exhausting to the atmosphere;
 - (G) One (1) Coal Conveyor, approved for construction in 2008, identified as CC03, with a maximum capacity of 450 tons per hour, using covers as control, exhausting to the atmosphere;
 - (H) One (1) Coal Conveyor, approved for construction in 2008, identified as CC04, with a maximum capacity of 450 tons per hour, using covers as control, exhausting to the atmosphere;
 - (I) One (1) Coal Conveyor, approved for construction in 2008, identified as CC05, with a maximum capacity of 450 tons per hour, using covers as control, exhausting to the atmosphere;
 - (J) One (1) Coal Storage Pile Area, approved for construction in 2008, identified as CF02, covering a nominal maximum area of 116,000 square feet, exhausting to the atmosphere;
 - (K) Front end wheel loaders with each having a minimum of an eight (8) cubic yard bucket and a vehicle weight of 100,000 lbs traveling on paved and unpaved roads, such that the use of any larger capacity wheel loader would be acceptable since it would reduce vehicle miles traveled and fugitive emissions; and
 - (L) Thaw Shed Heater, approved for construction in 2008, identified as RC04, with a maximum capacity of 9.45 MMBtu per hour, exhausting to the atmosphere; and
- (2) Grinding & Drying Plant:
- (A) Raw Coal Storage Bin, approved for construction in 2008, identified as PC01, with a maximum capacity of 700 tons, using bag filters as control, exhausting to stack PC01-S;
 - (B) Coal Grinder and Dryer, approved for construction in 2008, identified as PC02, with a maximum capacity of 85 tons of raw coal per hour, using Mill Bag Filter Separator as integral part of the process for control, exhausting to stack PC02-S;
 - (C) Coal Dryer Auxiliary Heater, approved for construction in 2008, identified as PC03, with a maximum capacity of 50 MMBtu per hour, exhausting to the atmosphere; and
 - (D) Pulverized Coal Storage Bin, approved for construction in 2008, identified as PC04, with a maximum capacity of 650 tons, using bag filters as control, and exhausting to stack PC04-S.

The request for the 18-month commencement of construction will be subject to an Administrative Amendment, 326 IAC 2-7-11, since no new additional applicable requirements will be required for the PCI system.

Emission Calculations

As part of this Administrative Amendment to extend the commencement of construction, emissions calculations for Green House Gases (GHG) emissions were made due to the Green House Gas Tailoring Rule issued by the U.S. Environmental Protection Agency (EPA) on May 13, 2010.

The following table reflects the Green House gases (GHG) emissions calculated:

Pollutant	Potential To Emit (tons/yr)
Carbon Dioxide Equivalents (CO ₂ e)	28,199.5

On May 13, 2010, the U.S. Environmental Protection Agency (EPA) issued a final rule that establishes a common sense approach to addressing greenhouse gas emissions from stationary sources under the Clean Air Act (CAA) permitting programs. This final rule sets thresholds for greenhouse gas (GHG) emissions that define when permits under the New Source Review Prevention of Significant Deterioration (PSD) and Part 70 Operating Permit programs are required for new and existing industrial facilities.

EPA's phased-in approach will start in January 2011, when Clean Air Act permitting requirements for GHGs will kick in for large facilities that are already obtaining Clean Air Act permits for other pollutants. Those facilities will be required to include GHGs in their permit if they increase CO₂e emissions by at least 75,000 tons per year.

The permitted coal dryer auxiliary heater and thaw shed heater would not be subject to the Green House Gas Tailoring Rule because the CO₂e emissions are less than 75,000 tons/year.

Federal Rule Applicability Determination

There are no new federal rules that will be applicable to the pulverized coal injection (PCI) system.

State Rule Applicability Determination

There are no new state rules that will be applicable to the pulverized coal injection (PCI) system.

Conclusion and Recommendation

The pulverized coal injection (PCI) system shall remain subject to Significant Source Modification No. 089-26477-00318, issued on November 17, 2008 and the attached Administrative Amendment No. 089-29113-00318. The staff recommends to the Commissioner that this Administrative Amendment be approved.

**Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100**

**Company Name: ArcelorMittal Indiana Harbor LLC
Address City IN Zip: 3001 Dickey Road, East Chicago, IN 46312
Administrative Amendment No.: 089-29113
Plant No.: 089-00318
Reviewer: Aida De Guzman
Date Application Received: 3/25/2010**

Heat Input Capacity MMBtu/hr		Potential Throughput MMCF/yr
50.0	Coal Dryer Auxiliary Heater	429.4
9.45	Thaw Shed Heater	40.6

	Pollutant
Emission Factor in lb/MMCF	CO2e 120000.0
Coal Dryer Auxiliary Heater PTE (tons/yr)	25764.7
Thaw Shed Heater PTE (tons/yr)	2434.8
TOTAL PTE (tons/yr)	28199.5

Annual heat input for the Thaw Shed Heater is restricted to 50% annual capacity factor in D.10.1 of the Part 70 Operating Permit.

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

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

Emission Factor is from AP 42, Chapter 1.4, Table 1.4-2.

(SUPPLEMENT D 3/98)

Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton



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

TO: Kevin Doyle
ArcelorMittal Indiana Harbor , LLC
3210 Watling St, MC8-130
E Chicago, IN 46312

DATE: June 9, 2010

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

SUBJECT: Final Decision
Part 70
089-29113-00318

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

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

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

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

Final Applicant Cover letter.dot 11/30/07

Mail Code 61-53

IDEM Staff	CDENNY 6/9/2010 ArcelorMittal Indiana Harbor , LLC 089-29113-00318 (final)		AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING	
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1		Kevin Doyle ArcelorMittal Indiana Harbor , LLC 3210 Watling St, MC8-130 E Chicago IN 46312 (Source CAATS)										
2		Mark Whalen VP - ArcelorMittal USA, GM - Indiana Harbor ArcelorMittal Indiana Harbor , LLC 3210 Watling St, MC8-130 E Chicago IN 46312 (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		Lake County Health Department-Gary 1145 W. 5th Ave Gary IN 46402-1795 (Health Department)										
6		WJOB / WZVN Radio 6405 Olcott Ave Hammond IN 46320 (Affected Party)										
7		Laurence A. McHugh Barnes & Thornburg 100 North Michigan South Bend IN 46601-1632 (Affected Party)										
8		Shawn Sobocinski 3229 E. Atlanta Court Portage IN 46368 (Affected Party)										
9		Ms. Carolyn Marsh Lake Michigan Calumet Advisory Council 1804 Oliver St Whiting IN 46394-1725 (Affected Party)										
10		Mark Coleman 9 Locust Place Ogden Dunes IN 46368 (Affected Party)										
11		Mr. Chris Hernandez Pipefitters Association, Local Union 597 8762 Louisiana St., Suite G Merrillville IN 46410 (Affected Party)										
12		Craig Hogarth 7901 West Morris Street Indianapolis IN 46231 (Affected Party)										
13		Lake County Commissioners 2293 N. Main St, Building A 3rd Floor Crown Point IN 46307 (Local Official)										
14		Anthony Copeland 2006 E. 140th Street East Chicago IN 46312 (Affected Party)										
15		Barbara G. Perez 506 Lilac Street East Chicago IN 46312 (Affected Party)										

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Name and address of Sender		Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204		

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											Remarks
1		Robert 3733 Parrish Avenue East Chicago IN 46312 (Affected Party)									
2		Ms. Karen Kroczek 8212 Madison Ave Munster IN 46321-1627 (Affected Party)									
3		Calumet Township Trustee 31 E 5th Avenue Gary IN 46402 (Affected Party)									
4		Joseph Hero 11723 S Oakridge Drive St. John IN 46373 (Affected Party)									
5		Gurinder Saini RTP Environmental Associates, Inc. 304A West Millbrook Road Raleigh NC 27609 (Consultant)									
6		Gary City Council 401 Broadway # 209 Gary IN 46402 (Local Official)									
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