



Mitchell E. Daniels, Jr.  
Governor

Thomas W. Easterly  
Commissioner

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

TO: Interested Parties / Applicant  
DATE: June 7, 2005  
RE: Nucor Steel / 107-21172-00038  
FROM: Paul Dubenetzky  
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, Room 1049, 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.dot 1/10/05



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We make Indiana a cleaner, healthier place to live.*

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June 7, 2005

David Sulc  
Nucor Steel  
R.R.2, Box 311  
Crawfordsville, IN 47933

Re: **107-21172-00038**  
Permit Amendment to PSD/SSM 107-16823-00038

Dear Mr. Sulc:

On November 21, 2003, Nucor Steel was issued a Prevention of Significant Deterioration (PSD) – Part 70 Significant Source Modification Permit (PSD/SSM 107-16823-00038) for the modification of the existing Electric Arc Furnaces (EAFs), Argon-Oxygen Decarburization (AOD) operations and other processes within the mill. On March 4, 2005, the Office of Air Quality (OAQ) received a permit amendment request to revise the final permit.

Pursuant to PSD – Part 70 Significant Source Modification Permit No.:107-16823-00038, Nucor was granted authority for the following physical modifications:

Meltshop EAFs

- Install an alloy system for direct feeding of alloys, lime and carbon to EAFs.
- Install a new conveyor systems to feed raw materials to the EAF charge buckets with outside truck or rail dump.

Meltshop Ladle Metallurgy Furnaces (LMFs) and Stirring Station

- Add a new alloying conveyor system, silos, storage bin, and feed equipment and control.

Nucor has determined that from an operational and an emissions minimization standpoint it would be better to construct a single raw materials feed system that incorporates the above equipment. This change in method of raw material handling does not trigger any new requirements nor violate any existing requirements. BACT requirements for the storage silos which were determined and referenced in the Technical Support Document (TSD) to PSD/SSM Permit No.: 107-16823-00038 have been included with this permit amendment No.:107-21172-00038.

Based on the information submitted by Nucor Steel and pursuant to 326 IAC 2-7-11(a), the PSD/SSM Permit 107-16823-00038 is hereby amended (**bolded** language added and ~~strikethrough~~ language deleted) as follows:

1. Condition A.2 and Section D.1 have been amended to include the source description of the Meltshop Raw Materials Feed System:

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

[326 IAC 2-7-5(15)]

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



I MELTSHOP

- (8) **Melt Shop Raw Material Feed System containing a combination of the elements authorized in PSD/SSM 107-16823-00038, Conditions B.6(l)(g) and (h) and (IV)(b).**
- (a) Ten (10) storage silos with bin vents
  - (b) Two (2) rail unloading operations under roof
  - (c) One (1) truck dumping station enclosed by a three sided building
  - (d) One (1) loader dumping station enclosed by a three side building
  - (e) Associated enclosed conveyors
  - (f) Storage bins
  - (g) Misc. feed equipment and controls

**SECTION D.1 FACILITY OPERATION CONDITIONS (continuation)**

Facility Description [326 IAC 2-7-5(15)]	MELTSHOP
(6) <b>Melt Shop Raw Material Feed System containing a combination of the elements authorized in PSD/SSM 107-16823-00038, Conditions B.6(l)(g) and (h) and (IV)(b).</b>	
(a) Ten (10) storage silos with bin vents	
(b) Two (2) rail unloading operations under roof	
(c) One (1) truck dumping station enclosed by a three sided building	
(d) One (1) loader dumping station enclosed by a three side building	
(e) Associated enclosed conveyors	
(f) Storage bins	
(g) Misc. feed equipment and controls	
(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)	

2. Condition D.1.10 has been amended to include the previously determined BACT requirements for the storage silos as referenced in the Technical Support Document (TSD) to PSD/SSM Permit No.: 107-16823-00038.

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

**D.1.10 Particulate Control Equipment Operation [326 IAC 2-2]**

- (b) Pursuant to 326 IAC 2-2, the following particulate control shall be in operation and control emissions at all times when its corresponding process is in operation:
- (i) **individual bin vents for silos, with the following specifications: each bin vent filter will have an outlet grain loading of 0.01 grains per dry standard cubic foot,**
  - (ii) scrubber for dust treatment, and
  - (iii) baghouse for truck loading building evacuation.
- (c) Pursuant to 326 IAC 2-2, fugitive emissions generated during EAFs and AOD vessel operations shall be captured by the Meltshop roof canopies or contained and collected within the Meltshop EAF building.

All other conditions of permit PSD/SSM 107-16823-00038, its amendments and modifications shall remain unchanged and in effect.

This permit decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions regarding this permit modification please contact Ms. Jenny Acker of my staff at the Indiana Department Environmental Management, Office of Air Quality, 100 North Senate Avenue, Indianapolis, Indiana 46204 or by telephone at (317) 232-8253 or toll free at 1-800-451-6027 extension 2-8253 or at [jlacker@idem.in.gov](mailto:jlacker@idem.in.gov)

Sincerely,

Paul Dubenetzky, Chief  
Permits Branch  
Office of Air Quality

JLA

cc: File – Montgomery County  
Montgomery County Health Department  
Air Compliance Section Inspector – Richard Sekula  
Compliance Data Section  
Technical Support and Modeling  
Part 70 Operating Permit Reviewer – Melissa Groch