

February 11, 2003

Mr. James Alexander  
US Steel - Gary Works  
One North Broadway  
Gary, IN 46402

Re: Experimental Operation  
EO No. 089-16676-00121

Dear Mr. Smith:

On January 15, 2003, U.S. Steel Gary Works, Gary, Indiana, submitted a letter informing the Office of Air Quality (OAQ) of the intention to conduct an experimental operation to study the mechanism that results in the variability of the condensable fraction of the particulate emissions during the use of urea as a control for SO<sub>2</sub> at the Number 3 Sinter Plant.

Experimental Operation General Information

Unit:	One (1) 5,000 gallon heat traced insulated tank and two (2) 3 gpm gear pumps, including the necessary spray nozzles and interconnecting piping/tubing.
Location of the Operation:	Gary, Indiana
County:	Lake
County Status:	Moderate non-attainment for PM <sub>10</sub> Severe non-attainment for Ozone Primary (Portions of county only) for SO <sub>2</sub>
Purpose of the Operation:	To study the mechanism that results in the variability of the condensable fraction of the particulate emissions during the use of urea as a control for SO <sub>2</sub> at the Number 3 Sinter Plant.
Starting Date of the Operation:	Seven days from the notification date [326 IAC 2-1.1-3(h)(3)(F)]
Duration of the Operation:	30 days of actual operation
Testing parameters:	SO <sub>2</sub> and PM <sub>10</sub>

Applicable Requirements

Pursuant to 326 IAC 2-1.1-3(h)(3), the above mentioned temporary operation and experimental trial shall satisfy the following requirements:

1. The potential emissions from the operation should be less than 25 tons per year for the duration of the operation. [326 IAC 2-1.1-3(h)(3)(A)]
2. The operation should not be a major source or modification as defined under 326 IAC 2-2, 326 IAC 2-3 or 326 IAC 2-7. [326 IAC 2-1.1-3(h)(3)(B)]
3. The purpose of the operation is to:
  - (a) collect data for experimental purposes, including, but not limited to, process improvements, new product development, and pollution prevention. [326 IAC 2-1.1-3(h)(3)(C)(i)]

- (b) temporarily conduct an operation not considered as part of the normal operation or production of the source. [326 IAC 2-1.1-3(h)(3)(C)(ii)]
- 4. The experimental trial should not be part of the existing normal operation or production of the source. [326 IAC 2-1.1-3(h)(3)(C)(ii)]
- 5. The duration of the experimental operation should not exceed 30 days of actual operation. [326 IAC 2-1.1-3(h)(3)(D)]
- 6. The source shall submit a report containing the following information, seven (7) days after the conclusion of the experimental operation: [326 IAC 2-1.1-3(h)(3)(G)]
  - (a) The actual dates of the construction and operation.
  - (b) The duration of the operation.
  - (c) The actual emissions occurring during the operation.
- 7. The report shall be submitted to:  
Indiana Department of Environmental Management  
Office of Air Quality, Permits Branch  
P. O. Box 6015  
Indianapolis, Indiana 46206-6015

Experimental Trial Expiration Date

This approval expires after 30 days of actual operating time of the experimental operation.

If you have any questions regarding this approval, please contact Ghassan Shalabi of my staff at 317-233-0431 or at 1-800-451-6027, ext 3-0431.

Sincerely,

Original Signed by Paul Dubenetzky  
Paul Dubenetzky, Chief  
Permits Branch  
Office of Air Quality

GAS

Enclosure: Experimental Trial Operation Report (1 page)

cc: File - Lake County

Lake County Health Department  
Air Compliance Section - Ramesh Tejula  
Compliance Data Section - Karen Nowak

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

**Experimental Trial Operation Report**

Source Name: US Steel - Gary Works  
 Source Location: One North Broadway, Gary, IN 46402  
 County: Lake  
 EO No.: 089-16676-00121  
 Approval Reviewer: Ghassan Shalabi

Milestone Schedule	
Type of unit/operation:	
Actual starting date of the construction:	
Actual ending date of the construction:	
Actual starting date of the operation:	
Actual ending date of the operation:	
Actual number of days of the operation:	
Calculated emissions during the duration of the operation:	
Additional Comments:	

I certify under penalty of law that this report was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Date:

cc: Air Compliance Section - Ramesh Tejula