INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We make Indiana a cleaner, healthier place to live.

Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

Northwest Regional Office
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Merrillville, Indiana 46410
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www.IN.gov/idem

February 19, 2008

VIA CERTIFIED MAIL 7002 0510 0004 0402 3970

Kenneth L. Mentzel
U. S. Steel, Gary Works
1 North Broadway
Gary, IN 46402

RE: Referral to the Office of Enforcement
U.S. Steel, Gary Works
Plant ID Number: 089-00121
Gary, Lake County

Dear Mr. Mentzel:

A review of your 2006 Annual Compliance Certification submitted by you on April 16, 2007, identified the following violations:

(1) Intermittent compliance with Permit Section C.5(a)(12), Fugitive Dust Emissions.
(2) Intermittent compliance with Permit Section D.2.4(a), Lake County PM10 Coke Battery Emission Requirements for coke oven doors.
(3) Intermittent compliance with Permit Section D.2.4(c)(2), Lake County PM10 Coke Battery Emission Requirements for coke pushing opacity.
(4) Intermittent compliance with Permit Section D.2.4(e)(1), Lake County PM10 Coke Battery Emission Requirements for coke oven off take piping.
(5) Intermittent compliance with Permit Section D.2.5(c), Coke Battery Emission Limitations for coke oven off take piping.
(6) Intermittent compliance with Permit Section D.2.5(e), Coke Battery Emission Limitations for coke oven doors.
(7) Intermittent compliance with Permit Section D.2.5(i), Coke Battery Visible Emission and Particulate Limitations for coke oven underfire stacks.
(8) Intermittent compliance with Permit Section C.1(a), D.7.16, NESHAP Iron and Steel Manufacturing Blast Furnaces.
(9) Intermittent compliance with Permit Section D.8.4(b), Lake County Opacity Limitations for 1 BOP roof monitor.
(10) Intermittent compliance with Permit Section D.9.4(c), Lake County Opacity Limitations for 2 Q-BOP roof monitor.
(11) Intermittent compliance with Permit Section D.9.17, NESHAP Iron and Steel Manufacturing BOPs.

The violations noted above were addressed by the Agreed Order signed on December 1, 2006. The following violations were also included in your 2006 Annual Compliance Certification and are being referred to IDEM's Office of Enforcement for appropriate action.

- Permit Condition D.8.4(b): On December 27, 2006 the (20%) opacity three (3) minute average opacity limit was exceeded (32.9%) during self monitoring of #1 BOP Roof Monitor.

- Permit Condition D.8.4(b), D.8.15: On December 19, 2006 the allowable roof monitor visible emissions of #1 BOF (20% opacity 3 minute average) was exceeded (21.7%) during internal observations.

If formal action is initiated for the violations being referred to the Office of Enforcement, you will be issued a notice of violation informing you of how to proceed in resolving this matter. Please direct any response to this letter and any questions to Dave Sampias at 219/757-0291or (888) 209-8892 (toll free within Indiana).

Sincerely,

for

J. Robert Simmons
Deputy Director
Northwest Regional Office

cc: Office of Enforcement
JRS/dcs
File

US Steel-Gary Works
Gary, Indiana
Permit Reviewer: Gail McGarrity

T089-7663-00121

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

PART 70 OPERATING PERMIT
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT

Source Name: U.S. Steel – Gary Works
Source Address: One North Broadway, Gary, Indiana 46402
Mailing Address: One North Broadway, Gary, Indiana 46402
Part 70 Permit No.: T089-7663-00121

Months: October 1 to December 31 **Year:** 2006

This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

☐ NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

☒ THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD. #1 BOP Roof

Permit Requirement (specify permit condition #) D.8.4(b), D.8.15 - NESHAP 20% 3'

Date of Deviation: 12/19/06	**Duration of Deviation:** 3 minutes
Number of Deviations: 1	21.7% OCS

Probable Cause of Deviation: High cal lime was contaminated with limestone caused slopping on "E" furnace. Emissions could not be captured by the gas cleaner ductwork.

Response Steps Taken: Visually check lime feed system to ensure that there is no contamination.

Permit Requirement (specify permit condition #) D.8.4(b), D.8.15 #1 BOP 20% 3min.

Date of Deviation: 12/27/06	**Duration of Deviation:** 3 minutes
Number of Deviations: 1	21.7 OCS 32.9%

Probable Cause of Deviation: CASBell duct draft was less than optimal due to the following factors: cover on "D" CASBell hood was not in place; hatch on alloy chute did not move freely and lodged open and the hatch on "E" CASBell alloy chute was partially open.

Response Steps Taken: Replaced cover on "D" CASBell hood and fix hatch on alloy chute to get a better seal.

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

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in this document is true, accurate and complete

Form Completed By: Casey Carrabine

Title/Position: Division Manager, Steel Producing South

Date: January 11, 2007

Phone: 219.888.4803

STATUS: APPROVED

Return Main | Previous | Next

Insp Number:	2218	Insp Date:	12/27/2006
Insp Class:	Self Monitoring	Inspector:	WASZ, RICHARD
Insp Plant:	Gary Works		
Monitor Point:	No. 1 BOP Shop Roof Monitor		
Duration:	2 Hr		

M Reyes

SOURCE LAYOUTS

Edit SourceLayout

Acknowledgements

Name	Sign Off	Phone	Comments	
MANGAHAS,MICHAEL		x 4116		
REYES,MAYELLA	Y	x7850	Comments	Submit

Acknowledge Users..

CONDITIONS

<< 1 OF 1 >> Create New Condition Save Conditions Update Conditions Delete

Date & Time:		12/27/2006 10:10:00 AM	
Background Color:	gray	Sky Conditions:	Party Cloudy
Wind Speed:	7	Wind Direction:	SOUTH WEST
Ambeint Temp:	35	Relative Humidity	77
Wet Bulb Temp:		Plume Type:	Attached

OBSERVATION POINTS

(Choose from Available Observation Points to Add to List; Selecet Obs. Point from list to enable Deletion)

Available Points:	None Selected
Minute:	0
Add	Delete

List of Selected Observation Points:

0	SP1 Primary Location - Substation 108

21.7%

Method Limit	Limit Type and Color
20% over 3 Min	20.5% - IDEM

32.9

13% over 3 Min 13.5% - USS INTERNAL AUDIT

READINGS / OBSERVATIONS

Save Readings Add New Session View Exceedances

Session 0 Start Time: Hour 10 Minute: 10 AM/PM AM

Session 0 Comments:

Session	Time	:00	:15	:30	:45	Reading Comments (Minute)
0	10:10	0	0	0	0	
0	10:11	0	0	0	0	
0	10:12	0	0	0	0	
0	10:13	0	0	0	0	
0	10:14	0	0	0	0	
0	10:15	0	0	0	0	
0	10:16	0	0	0	0	
0	10:17	0	0	0	0	
0	10:18	0	0	0	0	
0	10:19	0	0	0	0	
0	10:20	0	0	0	0	
0	10:21	0	0	0	0	
0	10:22	0	0	0	0	
0	10:23	0	0	0	0	
0	10:24	0	0	0	0	
0	10:25	0	0	0	0	
0	10:26	0	0	0	0	
0	10:27	0	0	0	0	
0	10:28	0	0	0	0	
0	10:29	0	0	0	0	
0	10:30	0	0	0	0	
0	10:31	0	0	0	0	
0	10:32	0	0	0	0	
0	10:33	0	0	0	0	
0	10:34	0	0	0	0	
0	10:35	0	0	0	0	

0	10:36	0	0	0	0	
0	10:37	0	0	0	0	
0	10:38	0	0	0	0	
0	10:39	0	0	0	0	
0	10:40	0	0	0	0	
0	10:41	0	0	0	0	
0	10:42	0	0	0	0	
0	10:43	0	0	0	0	
0	10:44	0	0	0	0	
0	10:45	0	0	0	0	
0	10:46	0	0	0	0	
0	10:47	0	0	0	0	
0	10:48	0	0	0	0	
0	10:49	0	0	0	0	
0	10:50	0	0	0	0	
0	10:51	0	0	0	0	
0	10:52	0	0	0	0	
0	10:53	0	0	0	0	
0	10:54	0	0	0	0	
0	10:55	0	0	0	0	
0	10:56	0	0	0	0	
0	10:57	0	0	0	0	
0	10:58	0	0	0	0	
0	10:59	0	0	0	0	
0	11:00	0	0	0	0	
0	11:01	0	0	0	0	
0	11:02	0	0	0	0	
0	11:03	0	0	0	0	
0	11:04	0	0	0	0	
0	11:05	0	0	0	0	
0	11:06	0	0	0	0	
0	11:07	0	0	0	0	
0	11:08	0	0	0	0	
0	11:09	0	0	0	0	

0	[illegible]	0	0	0	0	
0	11:10	0	0	0	0	
0	11:11	0	0	0	0	
0	11:12	0	0	0	0	
0	11:13	0	0	0	0	
0	11:14	0	0	0	0	
0	11:15	0	0	0	0	
0	11:16	0	0	0	0	
0	11:17	0	0	0	0	
0	11:18	0	0	0	0	
0	11:19	0	0	0	0	
0	11:20	0	0	0	0	
0	11:21	0	0	0	0	
0	11:22	0	0	0	0	
0	11:23	0	0	15	15	
0	11:24	10	5	0	0	
0	11:25	0	0	0	0	
0	11:26	0	0	0	0	
0	11:27	0	0	0	0	
0	11:28	[redacted]				
0	11:29	[redacted]				21.7
0	11:30	[redacted]				
0	11:31	30	20	15	15	
0	11:32	10	15	10	10	
0	11:33	10	0	0	0	32.5
0	11:34	0	0	0	0	
0	11:35	0	0	0	0	
0	11:36	0	0	0	0	
0	11:37	0	0	0	0	
0	11:38	0	0	0	0	
0	11:39	0	0	0	0	
0	11:40	0	0	0	0	
0	11:41	0	0	0	0	
0	11:42	0	0	0	0	
0	[illegible]	0	0	0	0	

32.9%

0	11:43	0	0	0	0	
0	11:44	0	0	0	0	
0	11:45	0	0	0	0	
0	11:46	0	0	0	0	
0	11:47	0	0	0	0	
0	11:48	0	0	0	0	
0	11:49	0	0	0	0	
0	11:50	0	0	0	0	
0	11:51	0	0	0	0	
0	11:52	0	0	0	0	
0	11:53	0	0	0	0	
0	11:54	0	0	0	0	
0	11:55	0	0	0	0	
0	11:56	0	0	0	0	
0	11:57	0	0	0	0	
0	11:58	0	0	0	0	
0	11:59	0	0	0	0	
0	12:00	0	0	0	0	
0	12:01	0	0	0	0	
0	12:02	0	0	0	0	
0	12:03	0	0	0	0	
0	12:04	0	0	0	0	
0	12:05	0	0	0	0	
0	12:06	0	0	0	0	
0	12:07	0	0	0	0	
0	12:08	0	0	0	0	
0	12:09	0	0	0	0	

STATUS: APPROVED

Return Main | Previous | Next

Insp Number:	2165	Insp Date:	12/19/2006
Insp Class:	Self Monitoring	Inspector:	WASZ, RICHARD
Insp Plant:	Gary Works		
Monitor Point:	No. 1 BOP Shop Roof Monitor		
Duration:	2 Hr		

SOURCE LAYOUTS

Edit SourceLayout

Acknowledgements

Name	Sign Off	Phone	Comments
MANGAHAS,MICHAEL		x 4116	
REYES,MAYELLA	Y	x7850	Comments Submit

Acknowledge Users..

CONDITIONS

<< 1 OF 1 >> Create New Condition | Save Conditions | Update Conditions | Delete

Date & Time:	12/19/2006 8:00:00 AM		
Background Color:	BLUE	Sky Conditions:	Clear
Wind Speed:	5	Wind Direction:	WEST
Ambeint Temp:	30	Relative Humidity	80
Wet Bulb Temp:		Plume Type:	Attached

OBSERVATION POINTS

(Choose from Available Observation Points to Add to List; Selecet Obs. Point from list to enable Deletion)

Available Points:	None Selected
Minute:	0
Add	Delete

List of Selected Observation Points:

0	SP1 Primary Location - Substation 108

21.7%

Method Limit	Limit Type and Color
20% over 3 Min	20.5% - IDEM