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: April 1 **to** June 30 **Year:** 2007

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.	
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: Dale Baker

Title/Position: Division Manager, Iron Producing

Date: July 20, 2007

Phone: 219.888.4688

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

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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 C. Carrabine

Title/Position: Division Manager, Steel Producing North

Date: July 20, 2007

Phone: 219.888.4803

Attach a signed certification to complete this report.

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

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Permit Requirement (specify permit condition #) D.8.4(b), D.8.15

Date of Deviation: 04/10/07	**Duration of Deviation:** 9 minutes

Number of Deviations: 3

Probable Cause of Deviation: Hot metal burn through hot metal transfer ladle No. 3 required a reladle from ladle No. 3 to ladle No. 1.

Response Steps Taken: Revised iron ladle visual inspection procedures and revised SOP to inspect and maintain the iron ladles on a routine basis.

Permit Requirement (specify permit condition #) D.8.4(c)

Date of Deviation: 05/18/07	**Duration of Deviation:** 6 minutes

Number of Deviations: 1

Probable Cause of Deviation: Unknown portion of the sandblast material used to blast the fan as well as some of the material removed from the fan was not recovered by the vacuum truck prior to startup.

Response Steps Taken: Developed procedure for blasting fans including additional steps to recover the blasting media and loosened material fully.

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: Robert H. Lange

Title/Position: Division Manager, Steel Producing South

Date: July 20, 2007

Phone: 219.888.7435

US Steel-Gary Works
Gary, Indiana
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☒ THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD.

Permit Requirement (specify permit condition #) D.2.4(e)(1)

Date of Deviation: 04/27/07	**Duration of Deviation:** Not applicable

Number of Deviations: 1

Probable Cause of Deviation: 6 offtake leaks out of 86 observed.

Response Steps Taken: Patch and seal leaks on the leaking offtakes.

Permit Requirement (specify permit condition #) D.2.4(e)(1)

Date of Deviation: 05/04/07	**Duration of Deviation:** Not applicable

Number of Deviations: 1

Probable Cause of Deviation: 5 offtake leaks out of 86 observed.

Response Steps Taken: Patch and seal leaks on the leaking offtakes.

Permit Requirement (specify permit condition #) D.2.4(a), D.2.5(e)	
Date of Deviation: 05/08/07	**Duration of Deviation:** Not applicable
Number of Deviations: 1	
Probable Cause of Deviation: 17 door leaks out of 154 observed.	
Response Steps Taken: Seal leaks on the leaking doors.	
Permit Requirement (specify permit condition #) D.2.4(c)(2)	
Date of Deviation: 05/13/07	**Duration of Deviation:** Not applicable
Number of Deviations: 1	
Probable Cause of Deviation: Restricted air flow in oven 67 wall flues 18 through 24 resulted in poor combustion in those chambers.	
Response Steps Taken: Included minimum length of time before an oven that has been passed up green can be pushed. Manager to check oven prior to pushing the oven.	
Permit Requirement (specify permit condition #) C.1(b) and D.2.5(i)	
Date of Deviation: 06/24/07	**Duration of Deviation:** 45 minutes
Number of Deviations: 3	
Probable Cause of Deviation: No. 2 Coke Battery shutdown was on May 4, 2007 due to failure of coal conveyor structure. After coke was pushed out of all ovens the empty ovens were kept hot and full of ambient air. The ambient air burned away the carbon buildup in the cracks and joints resulting in raw coke oven gas to enter the heating flues during the startup on June 24, 2007.	
Response Steps Taken: Inspected oven walls and floors and spraying and welding were required. Adjusted finger bar settings, changed orifices, adjusted draft settings and setup air to gas ratio for normal operation.	
Permit Requirement (specify permit condition #) D.2.26	
Date of Deviation: 06/24/07	**Duration of Deviation:** 24 hours
Number of Deviations: 1	
Probable Cause of Deviation: No. 2 Coke Battery shutdown was on May 4, 2007 due to failure of coal conveyor structure. After coke was pushed out of all ovens the empty ovens were kept hot and full of ambient air. The ambient air burned away the carbon buildup in the cracks and joints resulting in raw coke oven gas to enter the heating flues during the startup on June 24, 2007.	
Response Steps Taken: Inspected oven walls and floors and spraying and welding were required. Adjusted finger bar settings, changed orifices, adjusted draft settings and setup air to gas ratio for normal operation.	

Permit Requirement (specify permit condition #) D.2.4(c)(2)	
Date of Deviation: 06/28/07	**Duration of Deviation:** Not applicable
Number of Deviations: 1	
Probable Cause of Deviation: Poor gas quality and erratic Btu's caused fouling in the underfiring system and restriction of orifices.	
Response Steps Taken: Cleaned orifices, rodded out the air port and monitor and followup on gas quality and heating problems.	
Permit Requirement (specify permit condition #) C.1(a) and D.2.5(i) (See Attachment 1)	
Date of Deviation:	**Duration of Deviation:** Not applicable
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: Anthony E. Pacilio

Title/Position: Division Manager, Coke Operations

Date: July 20, 2007

Phone: 219.888.4028

Attachment 1

U.S. Steel - Gary Works
Part 70 Permit No.: T089-7663-00121

Permit Requirement: C.1(a) and D.2.5(i)

Battery No. 2

Dates of Deviation:	04/01/2007-06/30/2007
Duration of Deviation:	6 minutes/deviation
No. of Deviations:	469
Probable Cause of Deviation:	Condition of oven walls
Response Steps Taken:	Lower mushroom in air box to to reduce particulates to stack.

Battery No. 5

Dates of Deviation:	04/01/2007-06/30/2007
Duration of Deviation:	6 minutes/deviation
No. of Deviations:	977
Probable Cause of Deviation:	Condition of oven walls
Response Steps Taken:	Lower mushroom in air box to to reduce particulates to stack.

Battery No. 7

Dates of Deviation:	04/01/2007-06/30/2007
Duration of Deviation:	6 minutes/deviation
No. of Deviations:	1271
Probable Cause of Deviation:	Condition of oven walls
Response Steps Taken:	Lower mushroom in air box to to reduce particulates to stack.