OCS Environmental, Inc.

U.S. Steel Gary Works
Emissions Inspection Summary

Date: 1/16/12

Start Time: 09:30 (AM) / PM

End Time: 10:29 (AM) / PM

No. 2 Precarbon ESP

BOP	Roof Monitor		Gas Cleaners	
QBOP	Roof Monitor		Gas Cleaners	
Blast Furnace	4	6	8	14
Blast Furnace Top	4	6	8	14

The following events or operations contributed to significant emissions:

Time	Heat/Cast Number	Operation	Comments
1015 - 1025	65	OPENED Hole 10:19 Creating Excess Emissions	Total 500 Avg 20.83 Black (Smoke) High 40%

OCS Environmental, Inc.
Method 9 VE Inspection Form

			Start	End
Date:	1-6-12	Emissions color:	As Noted	Same
Source:	14BFCE	Background:	Sky	
Observation Start Time:	09:30	Sky Conditions:	Cloudy	
Observation End Time:	09:59	Wind Speed:	6	
Observer's Position:	14BF4	Wind Direction:	SW	
Distance to source:	800 YDS	Ambient Temp:	48°	
Direction to source:	N 338°	Relative Humidity%:	66%	
Height of source:	121'	Wet Bulb Temp:		
Vertical angle to source:	3°			

Plume Type: Attached Detached None

Comments	0	15	30	45			0	15	30	45	Comments
					0	30	0	0	0	0	
					1	31	0	0	0	0	
					2	32	0	0	0	0	
					3	33	0	0	0	0	
					4	34	0	0	0	0	
					5	35	0	0	0	0	
					6	36	0	0	0	0	
					7	37	0	0	0	0	
					8	38	0	0	0	0	
					9	39	0	0	0	0	
					10	40	0	0	0	0	
					11	41	0	0	0	0	
					12	42	0	0	0	0	
					13	43	0	0	0	0	
					14	44	0	0	0	0	
					15	45	0	0	0	0	
					16	46	0	0	0	0	
					17	47	0	0	0	0	
					18	48	0	0	0	0	
					19	49	0	0	0	0	
					20	50	0	0	0	0	
					21	51	0	0	0	0	
					22	52	0	0	0	0	
					23	53	0	0	0	0	
					24	54	0	0	0	0	
					25	55	0	0	0	0	
					26	56	0	0	0	0	
					27	57	0	0	0	0	
					28	58	0	0	0	0	
					29	59	0	0	0	0	

Additional Info (include steam dissipation point)

Observer's Signature: C Dubin

OCS Environmental, Inc.
Method 9 VE Inspection Form

Date: 1-6-12
Source: 14BFCE
Observation Start Time: 10:00
Observation End Time: 10:59
Observer's Position: 14BF4
Distance to source: 800 yds
Direction to source: N 338°
Height of source: 121'
Vertical angle to source: 3°

	Start	End
Emissions color:	AS NOTED	SAME
Background:	SKY	
Sky Conditions:	Cloudy	
Wind Speed:	6	
Wind Direction:	SW	
Ambient Temp:	48°	
Relative Humidity%:	66°	
Wet Bulb Temp:		

Plume Type: Attached Detached None

Comments	0	15	30	45			0	15	30	45	Comments
	0	0	0	0	0	30	0	0	0	0	
	0	0	0	0	1	31	0	0	0	0	
	0	0	0	0	2	32	0	0	0	0	
	0	0	0	0	3	33	0	0	0	0	
	0	0	0	0	4	34	0	0	0	0	
	0	0	0	0	5	35	0	0	0	0	
	0	0	0	0	6	36	0	0	0	0	
	0	0	0	0	7	37	0	0	0	0	
	0	0	0	0	8	38	0	0	0	0	
	0	0	0	0	9	39	0	0	0	0	
	0	0	0	0	10	40	0	0	0	0	
	0	0	0	0	11	41	0	0	0	0	
	0	0	0	0	12	42	0	0	0	0	
	0	0	0	0	13	43	0	0	0	0	
	0	0	0	0	14	44	0	0	0	0	
	0	0	0	0	15	45	0	0	0	0	
	0	0	0	0	16	46	0	0	0	0	
	0	0	0	0	17	47	0	0	0	0	
	0	0	0	0	18	48	0	0	0	0	
	0	0	0	0	19	49	0	0	0	0	
	0	0	0	0	20	50	0	0	0	0	
Blank 140	40	40	30	30	21	51	0	0	0	0	
" 60	20	20	20	20	22	52	0	0	0	0	
" 80	20	20	20	20	23	53	0	0	0	0	
" 160	40	40	40	40	24	54	0	0	0	0	
" 55	40	15	0	0	25	55	0	0	0	0	
	0	0	0	0	26	56	0	0	0	0	
	0	0	0	0	27	57	0	0	0	0	
	0	0	0	0	28	58	0	0	0	0	
	0	0	0	0	29	59	0	0	0	0	

Additional Info (Include steam dissipation point)
515

Observer's Signature
C Quilin

OCS Environmental, Inc.
Method 9 VE Inspection Form

Date: 1-6-12
Source: 14BFCC
Observation Start Time: 11:00
Observation End Time: 11:29
Observer's Position: 14BF4
Distance to source: 800 YDS
Direction to source: N 338°
Height of source: 121'
Vertical angle to source: 30°

	Start	End
Emissions color:	AS NOTED	SAME
Background:	SKY	↓
Sky Conditions:	Cloudy	↓
Wind Speed:	6	↓
Wind Direction:	SW	↓
Ambient Temp:	48°	↓
Relative Humidity%:	66	↓
Wet Bulb Temp:		

Plume Type: (Attached) Detached None

Comments	0	15	30	45			0	15	30	45	Comments
	0	0	0	0	0	30					
	0	0	0	0	1	31					
	0	0	0	0	2	32					
	0	0	0	0	3	33					
	0	0	0	0	4	34					
	0	0	0	0	5	35					
	0	0	0	0	6	36					
	0	0	0	0	7	37					
	0	0	0	0	8	38					
	0	0	0	0	9	39					
	0	0	0	0	10	40					
	0	0	0	0	11	41					
	0	0	0	0	12	42					
	0	0	0	0	13	43					
	0	0	0	0	14	44					
	0	0	0	0	15	45					
	0	0	0	0	16	46					
	0	0	0	0	17	47					
	0	0	0	0	18	48					
	0	0	0	0	19	49					
	0	0	0	0	20	50					
	0	0	0	0	21	51					
	0	0	0	0	22	52					
	0	0	0	0	23	53					
	0	0	0	0	24	54					
	0	0	0	0	25	55					
	0	0	0	0	26	56					
	0	0	0	0	27	57					
	0	0	0	0	28	58					
	0	0	0	0	29	59					

Additional Info (Include steam dissipation point)

Observer's Signature

20071107 Method 9 Inspection Form.doc

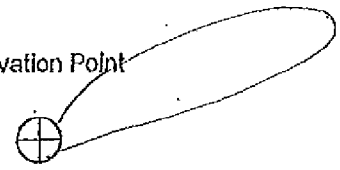
OCS Environmental, Inc.
Method 9 Source Layout Sketch

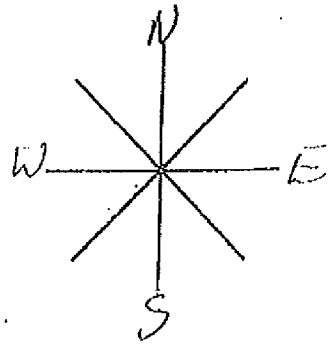
Date: 1/16/12

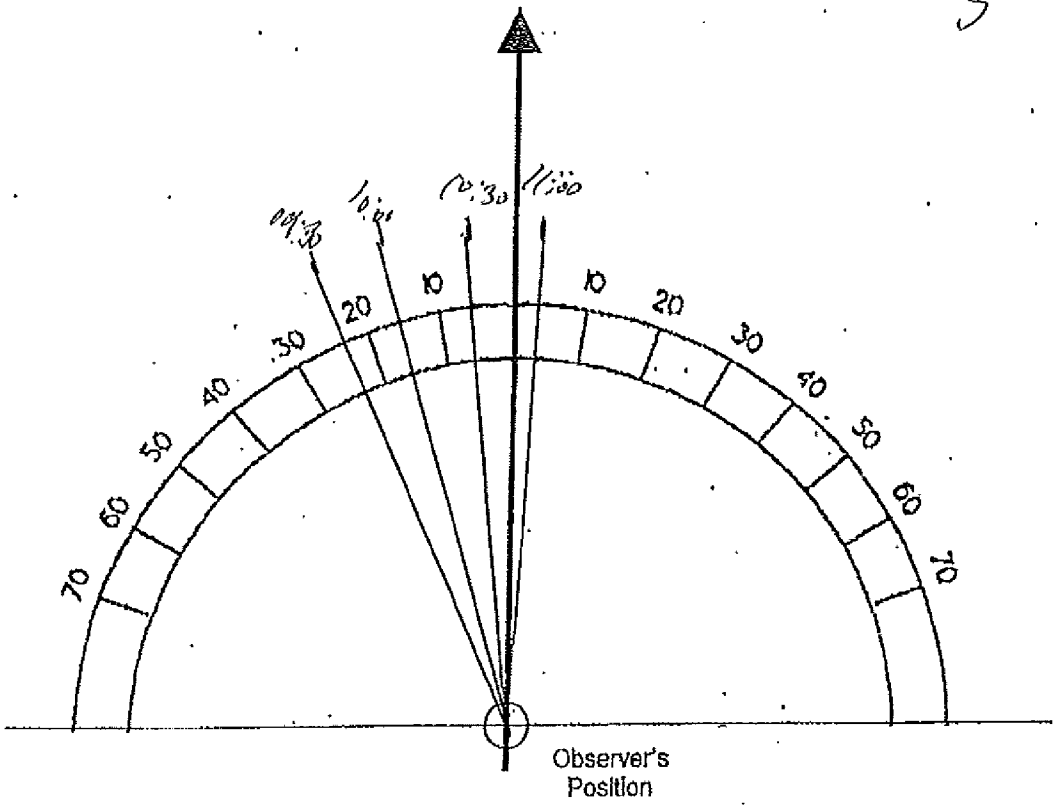
Observer Name: C Rubin

Begin Time: 09:30 Time End: 11:29

No Sun Visible Times







Signature: C Rubin

20071107 Method 9 Source Layout Sketch.doc

ESS0053B

United States Steel Corporation
GW - Primary - Steel Producing
EIRS Incident Screen Print

GW-Primary00151

Incident

Short Description:	Verif - No. 2 QBOP Roof Monitor		
Type:	Air Requirement	**Status:**	Open
Reported By:	Jim Alexander	**Phone:**	712.7255
Date Received:	3/19/2012 2:30 PM	**USS / Transtar Employee?**	Yes
Entered By:	Mayella Reyos		
Date Occurred:	3/19/2012 2:56 AM	**End Date:**	3/19/2012 2:59 PM
		Offsite?	No
Incident State:	Ended		
Process Unit:	Q-BOP - North	**Location:**	No. 2QBOP Roof Monitor
Description:	(1) exceedance of the PM10 limit observed on No. 2QBOP Roof Monitor. Average opacity reading of 35% from 14:56 - 14:59.		
Environmental Contact:	Mardanna Soto	**Method of Contact:**	Direct Contact
Date Contacted:	3/19/2012 4:30 PM	**CPAR Required?**	
		CPAR #:	

Additional Information

Media:	Air	**Severity:**	High
Has the initial report been confirmed?	Yes	**Confirmation Method:**	Field
Were changes to the initial report required?	No	**Outside Impact?**	No
Reportable?	Yes - Agency Reportable	**Deviation (Y/N):**	Yes
Permit/Citation Ref/Plan Associated:			

Additional Comments:

This is the second PM-10 recorded. There was also another PM-10 and an internal due to the same issue. Total duration was 9 minutes.
The smoke was a result of turning the furnace down to charge side to wait for a ladle to be placed on the car. The scheduled tap time was 15:15 however due to the single crane operation (1 charge was down for PM'S) the melters are told to charge as soon as the metal is available. The Melter contacted the pit foreman and asked if he would have a ladle ready early which would allow him to charge. The pit foreman said he would, and the furnace was charged. The ladle was not available when the blow was complete so the furnace was turned down, as they were turning down slag came over the lip at 80 degrees and they stopped for fear of spilling material in the pit and causing smoke in the shop. However, per procedure, they had to stay on rotation nitrogen (13,000 scfm) to keep the tuyeres clear, but they were out from under the primary hood, and the PM 10 system was on Y because they had already charged scrap. As soon as the ladle was ready the furnace was brought over to tap and the smoke stopped.

Root Cause Determination:

The root cause of the incident was the fact that the ladle was late to the car. This was due to #5 ladle crane operator leaving his crane while the ladle for W furnace was being processed. The crane operator was located by the pit foreman and told to return to his crane immediately. He then moved the ladle for use by W furnace.

Associated with another incident?	Yes	**Associated Incident Number?**	Primary00150
Health and Safety?	No		
Incident Classification:	Observation	**Category:**	
Initiating Event:			
Include in Rates and Counts?	Yes		

ESS0053B

United States Steel Corporation
GW - Primary - Steel Producing
EIRS Incident Screen Print

Incident Detail

Incident Sub-Type:	Self Observed Event	**Type of air requirement:**	Title V Permit
Type of deviation/exceedance/regulation:	Internal Monitoring	**# COMS or # CEMS:**	
Cause:	The root cause of the incident was the fact that the ladle was late to the car. This was due to #5 ladle crane operator leaving his crane while the ladle for W furnace was being processed. The crane operator was located by the pit foreman and told to return to his crane immediately. He then moved the ladle for use by W furnace.		
Control & Counter Measure:	Refer to CA and PA sections.		

Materials

No Data

Regulatory Notifications

No Data

Incident Investigation List

No Data

Incident Investigation Detail

No Data

Corrective Actions List

Corrective Action	Status
P- craneman contact	Completed

Corrective Actions Detail

Corrective Action: P- craneman contact

Author:	LASH, JAMES
Author Date:	3/19/2012
CAI #:	
Notes:	
Manager:	11969
Status:	Completed
Priority:	
Origin Cause:	
Proposed Corrective Action:	Contact craneman to ensure that they do not block an in-process ladle when craneman must deboard crane for any reason.
Proposed Completion Date:	3/21/2012
Revised Completion Date:	
Site Response:	
Assigned To:	
Externally Controlled:	
Review on Completion:	
Actual Corrective Action:	
Actual Completion Date:	Mar 20, 2012 12:00:00 AM
Verified By:	
Date Verified:	

United States Steel Corporation
GW - Primary - Steel Producing
EIRS Incident Screen Print

Root Cause
No Data

Reviewers/Approvers
No Data

Attachments
No Data

Witness Statements
No Data

Tasks
No Data

Lessons Learned
No Data

OCS Environmental, Inc.
Method 9 VE Inspection Form

Date: 3-19-12
Source: Q-ROOF
Observation Start Time: 1400
Observation End Time: 1459 45
Observer's Position: SR-6
Distance to source: 225 YDS
Direction to source: NW

Height of source: 186
Vertical angle to source: 13°

	Start	End
Emissions color:	AS NOTED	SAME
Background:	SKY	
Sky Conditions:	GRAY	
Wind Speed:	6	
Wind Direction:	S	
Ambient Temp:	66°	
Relative Humidity%:	80%	
Wet Bulb Temp:		

Plume Type: (Attached) Detached None

RUN #2 HEAT #2

Comments	0	15	30	45			0	15	30	45	Comments
RUN 2 HEAT2	0	0	0	0	0	30	0	0	0	0	
	0	0	0	0	1	31	0	0	0	0	
	0	0	0	0	2	32	0	0	0	0	
	0	0	0	0	3	33	0	0	0	0	
	0	0	0	0	4	34	0	0	0	0	
	0	0	0	0	5	35	0	0	0	0	
	0	0	0	0	6	36	0	0	0	0	
	0	0	0	0	7	37	0	0	0	0	
	0	0	0	0	8	38	0	0	0	0	
	0	0	0	0	9	39	0	0	0	0	
	0	0	0	0	10	40	0	0	0	0	
	0	0	0	0	11	41	0	0	0	0	
	0	0	0	0	12	42	0	0	0	0	
	0	0	0	0	13	43	0	0	0	0	END HEAT2 RUN2
	0	0	0	0	14	44	0	0	0	0	
	0	0	0	0	15	45	0	0	0	0	
	0	0	0	0	16	46	0	0	0	0	
	0	0	0	0	17	47	0	0	0	0	
	0	0	0	0	18	48	0	0	0	0	BEGIN HEAT 3 RUN2
	0	0	0	0	19	49	0	0	0	0	
	0	0	0	0	20	50	0	0	0	0	
	0	0	0	0	21	51	0	0	0	0	
	0	0	0	0	22	52	0	0	0	0	
	0	0	0	0	23	53	0	0	0	20	W44033
	0	0	0	0	24	54	10	10	10	10	
	0	0	0	0	25	55	10	30	30	20	RED
	0	0	0	0	26	56	30	40	40	30	
	0	0	0	0	27	57	30	30	40	40	
	0	0	0	0	28	58	30	30	20	20	
	0	0	0	0	29	59	30	40	80	80	

Additional info (include steam dissipation point)

Observer's Signature: J. Johnson

OCS Environmental, Inc.
Method 9 VE Inspection Form

Page 1 of 3

			Start	End
Date:	3-19-12	Emissions color:	AS NOTED	SAME
Source:	Q-ROOF	Background:	SKY	
Observation Start Time:	1309 00	Sky Conditions:	GRAY	
Observation End Time:	1359 45	Wind Speed:	6	
Observer's Position:	SP-6	Wind Direction:	S	
Distance to source:	225 yds	Ambient Temp:	66°	
Direction to source:	NW	Relative Humidity%:	80%	
		Wet Bulb Temp:		
Height of source:	186'			
Vertical angle to source:	13°			

Plume Type: (Attached) Detached None

RUN # 2 HEAT #1

Comments	0	15	30	45			0	15	30	45	Comments
					0	30	0	0	0	0	
					1	31	0	0	0	0	
					2	32	0	0	0	0	
					3	33	0	0	0	0	
					4	34	0	0	0	0	
					5	35	0	0	0	0	
					6	36	0	0	0	0	
					7	37	0	0	0	0	
					8	38	0	0	0	0	
	0	0	0	0	9	39	0	0	0	0	
	0	0	0	0	10	40	0	0	0	0	
RUN #2 HEAT#1	0	0	0	0	11	41	0	0	0	0	
	0	0	0	0	12	42	0	0	0	0	
	0	0	0	0	13	43	0	0	0	0	
	0	0	0	0	14	44	0	0	0	0	
	0	0	0	0	15	45	0	0	0	0	
	0	0	0	0	16	46	0	0	0	0	
	0	0	0	0	17	47	0	0	0	0	
	0	0	0	0	18	48	0	0	0	0	
	0	0	0	0	19	49	0	0	0	0	
	0	0	0	0	20	50	0	0	0	0	
	0	0	0	0	21	51	0	0	0	0	
	0	0	0	0	22	52	0	0	0	0	
	0	0	0	0	23	53	0	0	0	0	
	0	0	0	0	24	54	0	0	0	0	
	0	0	0	0	25	55	0	0	0	0	
	0	0	0	0	26	56	0	0	0	0	
	0	0	0	0	27	57	0	0	0	0	
	0	0	0	0	28	58	0	0	0	0	END HEAT 1
	0	0	0	0	29	59	0	0	0	0	BEGIN HEAT #2

Additional Info (include steam dissipation point)

Observer's Signature: J Johnson

OCS Environmental, Inc.
Method 9 VE Inspection Form

			Start	End
Date:	3-19-12			
Source:	Q-ROOF	Emissions color:	AS NOTED	SAME
Observation Start Time:	1500	Background:	SKY	
Observation End Time:	1530	Sky Conditions:	GRAY	
Observer's Position:	SP-6	Wind Speed:	6	
Distance to source:	225 YDS	Wind Direction:	S	
Direction to source:	NW	Ambient Temp:	68°	
		Relative Humidity%:	80%	
Height of source:	186'	Wet Bulb Temp:		
Vertical angle to source:	13°			

Plume Type: Attached Detached None

Comments	0	15	30	45			0	15	30	45	Comments
RED	60	20	20	10	0	30					CONT'D
	10	10	0	0	1	31					
	0	0	0	0	2	32					
	0	0	0	0	3	33					
	0	0	0	0	4	34					
	0	0	0	0	5	35					
	0	0	0	0	6	36					
	0	0	0	0	7	37					
	0	0	0	0	8	38					
	0	0	0	0	9	39					
	0	0	0	0	10	40					
	0	0	0	0	11	41					
	0	0	0	0	12	42					
	0	0	0	0	13	43					
	0	0	0	0	14	44					
	0	0	0	0	15	45					
	0	0	0	0	16	46					
	0	0	0	0	17	47					
	0	0	0	0	18	48					
	0	0	0	0	19	49					
	0	0	0	0	20	50					
	0	0	0	0	21	51					
	0	0	0	0	22	52					
	0	0	0	0	23	53					
	0	0	0	0	24	54					
	0	0	0	0	25	55					
	0	0	0	0	26	56					
	0	0	0	0	27	57					
	0	0	0	0	28	58					
	0	0	0	0	29	59					

Additional Info (include steam dissipation point)

Observer's Signature: J. Johnson

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OCS Environmental, Inc.
Method 9 VE Inspection Form

Page 4 of 4

			Start	End
Date:	3-19-12	Emissions color:	AS NOTED	SAME
Source:	Q-ROOF	Background:	SKY	
Observation Start Time:	1530 00	Sky Conditions:	BLUE	
Observation End Time:	1545 45	Wind Speed:	8	
Observer's Position:	SP6-	Wind Direction:	SW	
Distance to source:	225 YDS	Ambient Temp:	78°	
Direction to source:	NW	Relative Humidity%:	66%	
		Wet Bulb Temp:		
Height of source:	186			
Vertical angle to source:	13°			

Plume Type: (Attached) Detached None

Comments	0	15	30	45			0	15	30	45	Comments
11					0	30	0	0	0	0	HEAT 3 RUN 2
					1	31	0	0	0	0	CONT'D
					2	32	0	0	0	0	
					3	33	0	0	0	0	
					4	34	0	0	0	0	
					5	35	0	0	0	0	
					6	36	0	0	0	0	
					7	37	0	0	0	0	
					8	38	0	0	0	0	
					9	39	0	0	0	0	
					10	40	0	0	0	0	
					11	41	0	0	0	0	
					12	42	0	0	0	0	
					13	43	0	0	0	0	
					14	44	0	0	0	0	
					15	45	0	0	0	0	END OBSERVATION
					16	46					
					17	47					
					18	48					
					19	49					
					20	50					
					21	51					
					22	52					
					23	53					
					24	54					
					25	55					
					26	56					
					27	57					
					28	58					
					29	59					

Additional Info (include steam dissipation point)

Observer's Signature: J. Johnson

20071107 Method 9 Inspection Form.doc

ESS0053B

United States Steel Corporation
GW - Primary - Steel Producing
EIRS Incident Screen Print

GW-Primary00157

Incident

Short Description:	Verif - No. 2QBOP Roof Monitor		
Type:	Air Requirement	**Status:**	Open
Reported By:	OCS	**Phone:**	
Date Received:	3/23/2012 10:00 AM	**USS / Transtar Employee?**	No
Entered By:	Mayella Reyes		
Date Occurred:	3/23/2012 9:41 AM	**End Date:**	3/23/2012 9:43 AM
		Offsite?	No
Incident State:	Ended		
Process Unit:	Q-BOP - North	**Location:**	No. 2QBOP Roof Monitor
Description:	(1) exceedance of the PM10 limit at No. 2QBOP Roof monitor. Average opacity reading of 24% from 9:41am - 9:43am.		
Environmental Contact:	Mardanna Soto	**Method of Contact:**	Text
Date Contacted:	3/23/2012 10:00 AM	**CPAR Required?**	
		CPAR #:	

Additional Information

Media:	Air	**Severity:**	High
Has the initial report been confirmed?	Yes	**Confirmation Method:**	Field
Were changes to the initial report required?	No	**Outside Impact?**	No
Reportable?	Yes - Agency Reportable	**Deviation (Y/N):**	No
Permit/Citation Ref/Plan Associated:			
Additional Comments:	Heat was T42320, card#9812		
Root Cause Determination:	Flameup apparently due to charging wet scrap into a cold vessel.		
Associated with another Incident?	No	**Associated Incident Number?**	
Health and Safety?	No		
Incident Classification:		**Category:**	
Initiating Event:			
Include in Rates and Counts?	Yes		

Incident Detail

Incident Sub-Type:	Self Observed Event	**Type of air requirement:**	Title V Permit
Type of deviation/exceedance/regulation:	Internal Monitoring	**# COMS or # CEMS:**	
Cause:	Under Investigation		
Control & Counter Measure:	Refer to CA section		

ESS0053B

United States Steel Corporation
GW - Primary - Steel Producing
EIRS Incident Screen Print

Materials

No Data

Regulatory Notifications

No Data

Incident Investigation List

No Data

Incident Investigation Detail

No Data

Corrective Actions List

Corrective Action	Status
P - use scrap E box when charging a cold furnace during wet conditions	Completed
c-manage e box at BOP	Completed

Corrective Actions Detail

Corrective Action: P - use scrap E box when charging a cold furnace during wet conditions

Author:	LASH, JAMES
Author Date:	3/23/2012
CAI #:	
Notes:	
Manager:	11969
Status:	Completed
Priority:	
Origin Cause:	
Proposed Corrective Action:	
Proposed Completion Date:	3/26/2012
Revised Completion Date:	
Site Response:	
Assigned To:	
Externally Controlled:	
Review on Completion:	
Actual Corrective Action:	
Actual Completion Date:	Mar 26, 2012 12:00:00 AM
Verified By:	
Date Verified:	

Corrective Action: c-manage e box at BOP

Author:	NICKERSON, IAN
Author Date:	4/3/2012
CAI #:	
Notes:	Although a BOP activity, this action item is being tracked under the QBOP Incident due to its similar nature.
Manager:	12113
Status:	Completed
Priority:	
Origin Cause:	

ESS0053B

United States Steel Corporation
GW - Primary - Steel Producing
EIRS Incident Screen Print

Proposed Corrective Action:	Ensure BOP emergency scrap box is kept dry with either a tarp, moving the box inside, or putting it under a shelter.
Proposed Completion Date:	4/30/2012
Revised Completion Date:	6/8/2012
Site Response:	E Scrap box has been moved under roof.
Assigned To:	
Externally Controlled:	
Review on Completion:	
Actual Corrective Action:	
Actual Completion Date:	May 30, 2012 12:00:00 AM
Verified By:	
Date Verified:	

Root Cause

No Data

Reviewers/Approvers

No Data

Attachments

No Data

Witness Statements

No Data

Tasks

No Data

Lessons Learned

No Data

Q-Bop East GCS
RUN #1
HEAT #1

OCS Environmental, Inc.
Method 9 VE Inspection Form

Page 1 of 3

			Start	End
Date:	3/23/12	Emissions color:	As Noted	SAME
Source:	Q Bop Roof mont.	Background:	sky	
Observation Start Time:	0827	Sky Conditions:	O.C / GRAY	
Observation End Time:	0859	Wind Speed:	4	
Observer's Position:	SPG	Wind Direction:	E	
Distance to source:	225 yds	Ambient Temp:	62°	
Direction to source:	NW 10°	Relative Humidity%:	88%	
Height of source:	186'	Wet Bulb Temp:	N/A	
Vertical angle to source:	13°			

Plume Type: Attached Detached None

Comments	0	15	30	45			0	15	30	45	Comments
					0	30	0	0	0	0	
					1	31	0	0	0	0	
					2	32	0	0	0	0	
					3	33	0	0	0	0	
					4	34	0	0	0	0	
					5	35	0	0	0	0	
					6	36	0	0	0	0	
					7	37	0	0	0	0	
					8	38	0	0	0	0	
					9	39	0	0	0	0	
					10	40	0	0	0	0	
					11	41	0	0	0	0	
					12	42	0	0	0	0	
					13	43	0	0	0	0	
					14	44	0	0	0	0	
					15	45	0	0	0	0	
					16	46	0	0	0	0	
					17	47	0	0	0	0	
					18	48	0	0	0	0	
					19	49	0	0	0	0	
					20	50	0	0	0	0	
					21	51	0	0	0	0	
					22	52	0	0	0	0	
					23	53	0	0	0	0	
					24	54	0	0	0	0	
					25	55	0	0	0	0	
					26	56	0	0	0	0	
START RUN 1 / HEAT 1	0	0	0	0	27	57	0	0	0	0	
EAST GCS	0	0	0	0	28	58	0	0	0	0	
	0	0	0	0	29	59	0	0	0	0	

Additional Info (include steam dissipation point)

Observer's Signature

20071107 Method 9 Inspection Form.doc

OCS Environmental, Inc.

U.S. Steel Gary Works
Emissions Inspection Summary

Date: 3 / 23 / 12

Start Time: 0827 (AM) / PM

End Time: 1012 (AM) / PM

No. 2 Precarbon ESP

BOP	Roof Monitor		Gas Cleaners	
(QBOP)	(Roof Monitor)		Gas Cleaners	
Blast Furnace	4	6	8	14
Blast Furnace Top	4	6	8	14

The following events or operations contributed to significant emissions:

Time	Heat/Cast Number	Operation	Comments
0941:06 - 0943:15	T 42320	Hot metal charge	ORANGE / BROWN Total - 285 Highest - 80

20071107 Inspection Summary.doc

INCIDENT #00157

OCS Environmental, Inc.
Method 9 VE Inspection Form

Page 2 of 3

			Start	End
Date:	3/23/12	Emissions color:	As Noted	Same
Source:	Q Bop Roof mast	Background:	Sky	
Observation Start Time:	0900	Sky Conditions:	O.C. Gray	
Observation End Time:	0959	Wind Speed:	4	
Observer's Position:	SPG	Wind Direction:	E	
Distance to source:	225 yds	Ambient Temp:	62°	
Direction to source:	NW 10°	Relative Humidity%:	88%	
Height of source:	186'	Wet Bulb Temp:	N/A	
Vertical angle to source:	13°			

Plume Type: Attached Detached None

Comments	0	15	30	45			0	15	30	45	Comments
	0	0	0	0	0	30	X	X	X	X	
	0	0	0	0	1	31	0	0	0	0	Heat #2 Run #1
	0	0	0	0	2	32	0	0	0	0	
	0	0	0	0	3	33	0	0	0	0	
	0	0	0	0	4	34	0	0	0	0	
	0	0	0	0	5	35	0	0	0	0	
	0	0	0	0	6	36	0	0	0	0	
	0	0	0	0	7	37	0	0	0	0	
	0	0	0	0	8	38	0	0	0	0	
	0	0	0	0	9	39	0	0	0	0	
	0	0	0	0	10	40	0	0	0	0	
END Heat #1 Run 1	0	0	0	0	11	41	80	70	60	50	Brown / Not metal -T
					12	42	20	5	0	0	285 total
					13	43	0	0	0	0	
					14	44	0	0	0	0	
					15	45	0	0	0	0	
					16	46	0	0	0	0	
					17	47	0	0	0	0	
					18	48	0	0	0	0	
					19	49	0	0	0	0	
					20	50	0	0	0	0	
					21	51	0	0	0	0	
					22	52	0	0	0	0	
					23	53	0	0	0	0	
					24	54	0	0	0	0	
					25	55	0	0	0	0	
					26	56	0	0	0	0	
					27	57	0	0	0	0	
					28	58	0	0	0	0	
					29	59	0	0	0	0	

Additional info (include steam dissipation point)

Observer's Signature: [signature]

20071107 Method 9 Inspection Form.doc

OCS Environmental, Inc.
Method 9 VE Inspection Form

			Start	End
Date:	3/23/12	Emissions color:	As Noted	.5 hours
Source:	Q Bop Roof mont.	Background:	Sky	
Observation Start Time:	1000	Sky Conditions:	O.C / Gray	
Observation End Time:	1012	Wind Speed:	4	
Observer's Position:	SP6	Wind Direction:	E	
Distance to source:	225 yds	Ambient Temp:	62°	
Direction to source:	NW	Relative Humidity%:	88%	
	10°	Wet Bulb Temp:	N/A	
Height of source:	186'			
Vertical angle to source:	13°			

Plume Type: Attached Detached None

Comments	0	15	30	45			0	15	30	45	Comments
	0	0	0	0	0	30					
	0	0	0	0	1	31					
	0	0	0	0	2	32					
	0	0	0	0	3	33					
	0	0	0	0	4	34					
	0	0	0	0	5	35					
	0	0	0	0	6	36					
	0	0	0	0	7	37					
	0	0	0	0	8	38					
	0	0	0	0	9	39					
	0	0	0	0	10	40					
Abort 1	0	0	0	0	11	41					
	0	0	0	0	12	42					
					13	43					
					14	44					
					15	45					
					16	46					
					17	47					
					18	48					
					19	49					
					20	50					
					21	51					
					22	52					
					23	53					
					24	54					
					25	55					
					26	56					
					27	57					
					28	58					
					29	59					

Additional info (include steam dissipation point)

Observer's Signature [signature]

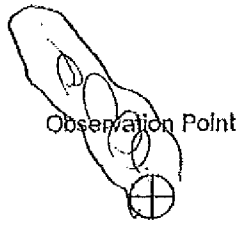
OCS Environmental, Inc.
Method 9 Source Layout Sketch

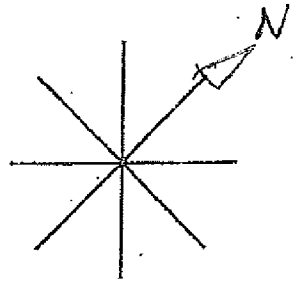
Date: 3 / 23 / 12

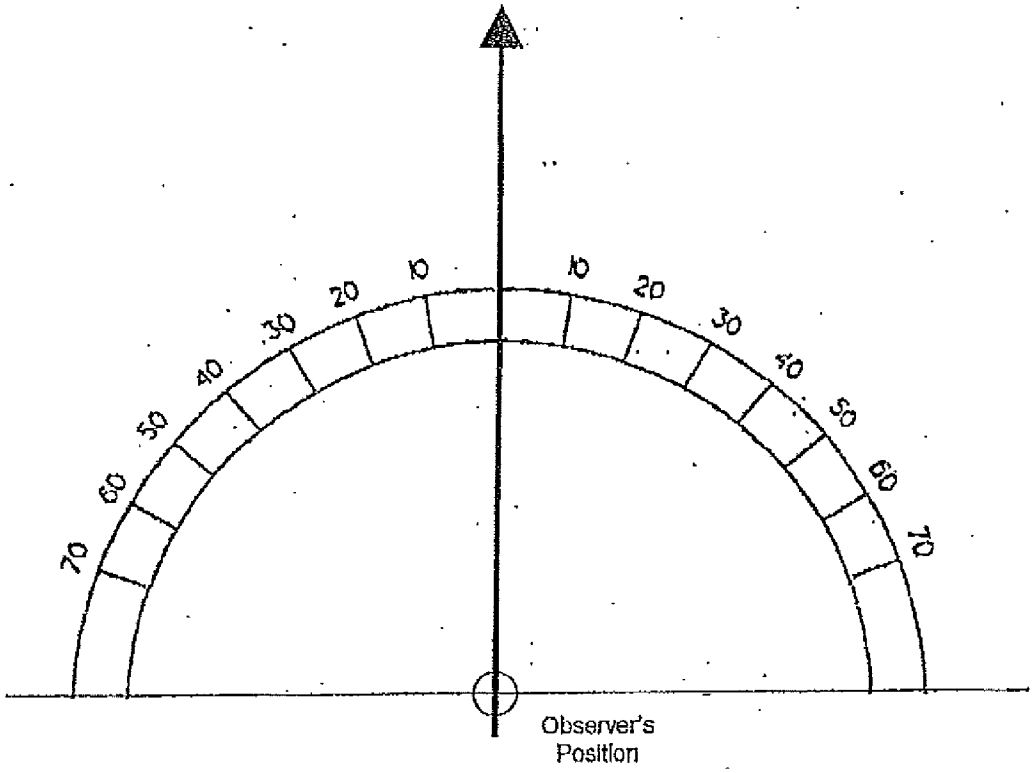
Observer Name: R. MACKEY

Begin Time: 0827 Time End: 1012

No Sun Visible Times
0827
0857
0927
0957







Signature: R.K. Mackey

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