



United States Steel Corporation  
Clairton Plant  
400 State Street  
Clairton, PA 15025

January 13, 2022

Mr. William Clark  
Coke Oven Engineer  
Allegheny County Health Department  
Department of Air Quality  
301 Thirty-ninth Street  
Pittsburgh, PA 15201

Subject: USS Clairton Works  
Process Information  
Title V Permit 0052

Dear Sir:

The attached forms list Clairton Plant coking and desulfurization process information for the month of December, 2021. This satisfies the requirements of paragraphs IV.29, V.A.5.a, V.C.5.a, V.E.5.a, and V.N.5.c of the Title V operating permit #0052 as issued on March 27, 2012.

I certify that based on the information and belief formed after reasonable inquiry, the statements and information in this document are true, accurate, and complete. Any questions concerning this matter should be referred to Michael Dzurinko at 412-233-1467.

Sincerely,

A handwritten signature in black ink, appearing to read 'Michael S. Rhoads'.

Michael S. Rhoads  
Plant Manager  
Clairton Works

Attachment

**MONTHLY REPORT TO ALLEGHENY COUNTY HEALTH DEPARTMENT  
BUREAU OF AIR POLLUTION CONTROL  
COKE PLANT OPERATION DATA  
USX CORPORATION - USS CLAIRTON WORKS (Please print or type)**

for Month: 12 Year: 2021 BAPC Use Only Date Received: \_\_\_\_\_  
(to be received by the Bureau no later than 20 days after the end of each month)

**DAILY AVERAGE FOR THE MONTH**

Coal Charged (Tons)	13,586
Coke Produced (Tons)	10,438
Total COG Produced (MMCF)	173.7
Quench Water Used (Gallons)	1,722,000 (Estimated)
Elemental Sulfur Produced (Tons)	38.8
Sulfur Content of Coal (%)	0.98
Sulfur Content of Coke (%)	0.79

**PUSHING CONTROL SYSTEM(S) - MONTHLY AVAILABILITY**

	Total Pushes	Total Pushes Controlled	% of Pushes Controlled
System 1,2,3	5772	5772	100.00%
System 13,14,15	3422	3418	99.88%
System 19,20	5628	5627	99.98%
"B" Battery	2697	2697	100.00%
"C" Battery	3027	3027	100.00%
<b>Total</b>	<b>20546</b>	<b>20541</b>	<b>99.98%</b>

**PUSHING CONTROL OUTAGE SUMMARY \***

System	Start Date	Time	End Date	Time	Hrs. Out	# Ovens Not PEC	USS BRKDWN #	Reason(s) for Outage
13 15 15 PEC	29-Dec-21	0500	29-Dec-21	0725	2.42	3	21-0061	ACHD# 22176; Door Machine Damper Misaligned

**CONTAMINATED WATER (C. W.) QUENCHING SUMMARY \***

Date	Start Time	End Date	Time	Hrs. Out	BAPC BRKDWN #	Avg. C.W. (GPM) to: Quench	Treatment Plant	Cause of C.W. Usage
Total:								

\* Attach additional pages if necessary

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BUREAU OF AIR POLLUTION CONTROL  
DESULFURIZATION PLANT DATA  
USX CORPORATION - USS CLAIRTON WORKS (Please print or type)**

for Month: 12 Year: 2021 BAPC Use Only  
Date Received: \_\_\_\_\_  
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**H2S OR EQUIVALENT H2S (GR./100 DSCF) IN:**

Date	1 % of Raw COG	2 Clean COG	3 Tail Gas	2 + 3	Date	1 % of Raw COG	2 Clean COG	3 Tail Gas	2 + 3
1	3.9	5.6	0.2	5.8	17	4.1	5.4	0.1	5.5
2	4.0	5.7	0.3	6.0	18	3.8	5.9	0.1	6.0
3	4.0	5.8	0.2	6.0	19	4.0	5.7	0.1	5.8
4	4.1	6.0	0.2	6.2	20	3.9	5.9	0.1	6.0
5	4.2	5.7	0.3	6.0	21	3.6	5.5	0.1	5.6
6	3.8	5.3	0.1	5.4	22	3.6	5.3	0.1	5.4
7	3.6	5.1	0.2	5.3	23	3.7	5.9	0.1	6.0
8	3.6	5.7	0.2	5.9	24	3.6	6.4	0.2	6.6
9	3.9	5.7	0.2	5.9	25	3.8	5.6	0.2	5.8
10	3.8	6.1	0.3	6.4	26	3.8	5.8	0.1	5.9
11	3.7	6.0	0.2	6.2	27	3.9	5.8	0.4	6.2
12	3.8	5.7	0.3	6.0	28	3.8	6.0	0.2	6.2
13	3.9	5.9	0.1	6.0	29	3.9	5.0	0.2	5.2
14	3.7	6.0	0.1	6.1	30	4.0	5.3	0.1	5.4
15	3.7	4.9	0.1	5.0	31	4.0	5.2	0.1	5.3
16	3.9	5.5	0.1	5.6	Avg. Mo.	3.8	5.6	0.2	5.8

Plant Std. Gr. H2S/100 DSCF 35  
# of Days that [2+3] Exceeded Std. 0  
NA - Stack analyzer down

**DESULFURIZATION PLANT OUTAGE SUMMARY \*\*\***

Date	Start Time	End Date	Time	Hrs. Out	USS BRKDOWN #	Cause
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\*\* Redundant Equipment or No Environmental Impact

Total: 0.0  
Percent Availability of COG Desulf. Plant (Monthly) 100.00%

\*\*\* Desulfurization Plant reporting includes upstream processes which affect overall recovery

**RAW COKE OVEN GAS INCIDENTS**

Date	Battery	Start Time	End Time	Duration		Flared		Cause of incident
				Minutes	Seconds	Yes	No	

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for Month: 12 Year: 2021 BAPC Use Only  
(to be received by the Bureau no later than 20 days after the end of each month) Date Received: \_\_\_\_\_

QUENCH TOWER OUTAGE SUMMARY \*

System	Start Date	Time	End Date	Time	Hrs. Out	# Ovens Not Baffled	USS BRKDWN #	Reason(s) for Outage
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\* Attach additional pages if necessary

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BAPC Use Only  
Date Received: \_\_\_\_\_

**Pushing Control Operation at Reduced Efficiency Summary \***

System	Start Date	Time	End Date	Time	Hrs. Out	# Ovens Reduced Efficiency	USS BRKDWN #	Reason(s) for Outage
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for Month: 12

Year: 2021

**Pushing Control Outage Summary**  
(1 Hour or Less Duration)

System	Date	Turn	# Ovens Not PEC	Reason(s) for Outage
19 20 PEC	2-Dec-21	3	1	Door Machine Damper Misaligned
13 14 15 PEC	16-Dec-21	1	1	Lost Travel to Hood Car

\* Attach additional pages if necessary

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for Month: 12 Year: 2021  
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STACK CONTROL SYSTEM(S) - MONTHLY AVAILABILITY

Facility	Start Date	Time	End Date	Time	Duration Hrs.	USS Reference #	Reason(s) for Outage
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\* Attach additional pages if necessary