



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

August 15, 2022

Mr. Gary Ficshman
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 July, 2022. 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 blue ink that reads "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)**

Month: 7 Year: 2022 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)	12,842
Coke Produced (Tons)	9,551
Total COG Produced (MMCF)	168.3
Quench Water Used (Gallons)	1,576,000 (Estimated)
Elemental Sulfur Produced (Tons)	34.3
Sulfur Content of Coal (%)	1.01
Sulfur Content of Coke (%)	0.81

PUSHING CONTROL SYSTEM(S) - MONTHLY AVAILABILITY

	Total Pushes	Total Pushes Controlled	% of Pushes Controlled
System 1,2,3	5616	5616	100.00%
System 13,14,15	3239	3167	97.78%
System 19,20	5234	5234	100.00%
"B" Battery	2414	2414	100.00%
"C" Battery	2803	2803	100.00%
Total	19306	19234	99.63%

PUSHING CONTROL OUTAGE SUMMARY *

System	Start Date	Time	End Date	Time	Hrs. Out	# Ovens Not PEC	USS BRKDWN #	Reason(s) for Outage
13 14 15 PEC	12-Jul-22	1506	12-Jul-22	1615	1.15	7	22-0027	ACHD# 22358; Hood Car Encoder Issue
13 14 15 PEC	18-Jul-22	1719	19-Jul-22	0745	14.43	58	22-0028	ACHD# 22360; Hood Car Derailment

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
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Total:

* Attach additional pages if necessary

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

for Month: 7 Year: 2022 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	5.1	0.0	5.1	17	3.7	4.1	0.1	4.2
2	4.0	10.4	0.0	10.4	18	3.6	3.9	0.4	4.3
3	3.9	5.5	0.0	5.5	19	3.4	3.5	0.3	3.8
4	NA	4.5	0.0	4.5	20	3.5	4.3	0.3	4.6
5	0.8	86.6	0.0	86.6	21	3.7	4.4	0.4	4.8
6	2.2	4.3	0.0	4.3	22	3.8	4.4	0.4	4.8
7	2.8	4.4	0.0	4.4	23	4.1	4.6	0.4	5.0
8	3.7	4.3	0.0	4.3	24	3.9	4.4	0.2	4.6
9	3.8	5.2	0.0	5.2	25	3.7	4.0	0.4	4.4
10	3.7	5.2	0.0	5.2	26	3.4	3.8	0.3	4.1
11	3.8	4.8	0.0	4.8	27	3.6	4.7	0.3	5.0
12	3.7	4.4	0.1	4.5	28	3.7	4.1	0.4	4.5
13	3.5	4.4	0.3	4.7	29	3.8	4.4	0.3	4.7
14	3.6	4.2	0.4	4.6	30	4.0	4.3	0.2	4.5
15	3.4	3.7	0.3	4.0	31	4.1	4.6	0.3	4.9
16	3.5	4.0	0.0	4.0	Avg. Mo.	3.5	7.2	0.2	7.4

Plant Std. Gr. H2S/100 DSCF 35
of Days that [2+3] Exceeded Std. 1
NA - Stack analyzer down

DESULFURIZATION PLANT OUTAGE SUMMARY ***

Date	Start Time	End Date	Time	Hrs. Out	USS BRKDOWN #	Cause
2-Jul-22	0400	2-Jul-22	0700	3.00	22-0025	ACHD# 22349; 100 VCU Loss of Power
4-Jul-22	0530	5-Jul-22	2230	41.00	22-0026	ACHD# 22350; Loss of Power to Clairton Plant

** Redundant Equipment or No Environmental Impact

Total: 44.0
Percent Availability of COG Desulf. Plant (Monthly) 94.09%

*** 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	
4-Jul-22	Battery 1	0535	1520	585	0	Yes		Loss of Power to Clairton Plant
4-Jul-22	Battery 2	0535	1520	585	0	Yes		Loss of Power to Clairton Plant
4-Jul-22	Battery 3	0535	1520	585	0	Yes		Loss of Power to Clairton Plant
4-Jul-22	Battery 13	0535	1520	585	0	Yes		Loss of Power to Clairton Plant
4-Jul-22	Battery 14	0535	1520	585	0	Yes		Loss of Power to Clairton Plant
4-Jul-22	Battery 19	0535	1520	585	0	Yes		Loss of Power to Clairton Plant
4-Jul-22	Battery 20	0535	1520	585	0	Yes		Loss of Power to Clairton Plant
4-Jul-22	Battery B	0535	1520	585	0	Yes		Loss of Power to Clairton Plant
4-Jul-22	Battery C	0535	1520	585	0	Yes		Loss of Power to Clairton Plant

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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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Pushing Control Operation at Reduced Efficiency Summary *

System	Start Date	Time	End Date	Time	Hrs. Out	# Ovens Reduced Efficiency	USS BRKDOWN #	Reason(s) for Outage
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for Month: 7

Year: 2022

Pushing Control Outage Summary
(1 Hour or Less Duration)

System	Date	Turn	# Ovens Not PEC	Reason(s) for Outage
13 14 15 PEC	13-Jul-22	2	1	Hood Travel Fault
13 14 15 PEC	18-Jul-22	2	5	Hood Encoder Feedback Fault
13 14 15 PEC	31-Jul-22	2	1	Hood Encoder Feedback Fault

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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
# 2 Battery Stack	29-Jun-22	2110	29-Jun-22	2315	2.08	2-0024	ACHD #22347; Broken Reversing Rod

* Attach additional pages if necessary