



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

September 07, 2023

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 August, 2023. 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, appearing to read 'Mark A. Jeffery'.

Mark A. Jeffery
Plant Manager
Clairton Works

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

Month: 8 Year: 2023 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)	11,656
Coke Produced (Tons)	8,586
Total COG Produced (MMCF)	151.1
Quench Water Used (Gallons)	1,417,000 (Estimated)
Elemental Sulfur Produced (Tons)	31.3
Sulfur Content of Coal (%)	1.01
Sulfur Content of Coke (%)	0.82

PUSHING CONTROL SYSTEM(S) - MONTHLY AVAILABILITY

	Total Pushes	Total Pushes Controlled	% of Pushes Controlled
System 13,14,15	4100	4099	99.98%
System 19,20	5652	5640	99.79%
"B" Battery	2583	2583	100.00%
"C" Battery	3040	3040	100.00%
Total	15375	15362	99.92%

PUSHING CONTROL OUTAGE SUMMARY *

System	Start Date	Time	End Date	Time	Hrs. Out	# Ovens Not PEC	USS BRKDOWN #	Reason(s) for Outage
19 20 PEC	24-Aug-23	1405	24-Aug-23	1717	3.20	12	23-0013	ACHD# 22599; PEC Hood Out of Service Due to Anti-Tip Fault

CONTAMINATED WATER (C. W.) QUENCHING SUMMARY *

Date	Start Time	End Date	Time	Hrs. Out	BAPC BRKDOWN #	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
USS CORPORATION - USS CLAIRTON WORKS (Please print or type)**

BAPC Use Only
Date Received: _____

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H2S OR EQUIVALENT H2S (GR./100 DSCF) IN:

Date	1				2				3			
	% of Raw COG	Clean COG	Tail Gas	2 + 3	Date	% of Raw COG	Clean COG	Tail Gas	2 + 3			
1	3.5	6.7	0.4	7.1	17	3.2	6.5	0.2	6.7			
2	3.6	6.8	0.2	7.0	18	3.2	7.4	0.2	7.6			
3	3.7	7.3	0.3	7.7	19	3.5	7.6	0.2	7.8			
4	3.7	7.7	0.3	8.0	20	3.5	7.7	0.4	8.1			
5	3.7	7.3	0.3	7.6	21	3.4	7.3	0.3	7.5			
6	3.8	7.2	0.4	7.7	22	3.2	5.7	0.3	6.0			
7	3.6	6.7	0.3	7.0	23	3.3	4.9	0.3	5.2			
8	3.7	7.1	0.4	7.5	24	3.5	5.6	0.2	5.8			
9	3.7	6.6	0.4	7.1	25	3.5	6.4	0.2	6.6			
10	3.8	7.4	0.4	7.9	26	3.7	6.6	0.3	6.9			
11	3.8	7.9	0.4	8.3	27	3.6	6.4	0.4	6.7			
12	N/A	96.3	0.0	96.3	28	3.3	5.9	0.6	6.5			
13	N/A	107.6	0.0	107.6	29	3.2	5.3	0.2	5.5			
14	2.2	6.9	0.0	7.0	30	3.4	6.2	0.3	6.5			
15	3.6	6.7	0.1	6.7	31	3.3	6.1	0.2	6.2			
16	2.4	4.7	0.0	4.7	Avg. Mo.	3.4	12.8	0.3	13.1			

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

DESULFURIZATION PLANT OUTAGE SUMMARY ***

Date	Start Time	End Date	Time	Hrs. Out	USS BRKDOWN #	Cause
12-Aug-23	0415	13-Aug-23	2130	41.25	23-0011	ACHD# 22595; The Clairton Plant suddenly and unexpectedly lost all electrical power to the plant due to a lightning strike affecting the Clairton Plant Power Distribution System

** Redundant Equipment or No Environmental Impact

Total: 41.3
Percent Availability of COG Desulf. Plant (Monthly) 94.46%
*** 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	
12-Aug-23	13	4:30	12:15	465	0	Yes		Loss of Power to Clairton Plant
12-Aug-23	14	4:30	12:15	465	0	Yes		Loss of Power to Clairton Plant
12-Aug-23	19	4:30	12:15	465	0	Yes		Loss of Power to Clairton Plant
12-Aug-23	20	4:30	12:15	465	0	Yes		Loss of Power to Clairton Plant
12-Aug-23	B	4:30	12:15	465	0	Yes		Loss of Power to Clairton Plant
12-Aug-23	C	4:30	12:15	465	0	Yes		Loss of Power to Clairton Plant
13-Aug-23	C	7:10	7:10	0	9	Yes		Loss of Battery Suction
13-Aug-23	C	8:52	8:25	0	2	Yes		Loss of Battery Suction

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QUENCH TOWER OUTAGE SUMMARY *

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

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Date Received: _____

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: 8

Year: 2023

Pushing Control Outage Summary
(1 Hour or Less Duration)

System	Date	Turn	# Ovens Not PEC	Reason(s) for Outage
13 14 15 PEC	25-Aug-23	2	1	PEC Hood Out of Service For One Push

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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