



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

December 16, 2021

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 November, 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 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)**

for Month: 11 Year: 2021 BAPC Use Only
(to be received by the Bureau no later than 20 days after the end of each month) Date Received: _____

DAILY AVERAGE FOR THE MONTH

Coal Charged (Tons)	13,435
Coke Produced (Tons)	10,735
Total COG Produced (MMCF)	169.1
Quench Water Used (Gallons)	1,771,000 (Estimated)
Elemental Sulfur Produced (Tons)	40.1
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	5555	5540	99.73%
System 13,14,15	3294	3269	99.24%
System 19,20	5326	5296	99.44%
"B" Battery	2564	2564	100.00%
"C" Battery	2910	2910	100.00%
Total	19649	19579	99.64%

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	12-Nov-21	0000	12-Nov-21	0340	3.67	30	21-0054	ACHD# 22158; Bad PLC input card led to loss of power to hood car
13 14 15 PEC	12-Nov-21	0120	12-Nov-21	0705	5.75	25	21-0055	ACHD# 22159; Loss of power to hood car caused by several faulty wires
1 2 3 PEC	23-Nov-21	0050	23-Nov-21	0230	1.67	15	21-0058	Hood encoder electrical issue

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
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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: 11 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	3.7	5.3	0.1	5.4	17	3.5	5.2	0.2	5.4
2	3.7	5.4	0.1	5.5	18	3.9	5.7	0.1	5.8
3	3.7	4.6	0.2	4.8	19	3.9	5.9	0.1	6.0
4	3.9	4.9	0.1	5.0	20	3.9	6.4	0.1	6.5
5	3.6	4.6	0.1	4.7	21	3.9	6.2	0.3	6.5
6	3.5	5.7	0.2	5.9	22	3.6	6.5	0.2	6.7
7	3.7	4.4	0.1	4.5	23	3.7	5.1	0.2	5.3
8	3.6	4.6	0.1	4.7	24	3.8	4.9	0.2	5.1
9	3.6	5.4	0.1	5.5	25	3.8	5.0	0.3	5.3
10	3.5	5.0	0.1	5.1	26	3.9	5.8	0.2	6.0
11	3.6	4.9	0.1	5.0	27	4.0	6.3	0.2	6.5
12	3.7	5.6	0.2	5.8	28	4.0	6.0	0.3	6.3
13	3.9	6.0	0.1	6.1	29	4.0	5.8	0.2	6.0
14	3.9	6.5	0.1	6.6	30	3.9	5.3	0.2	5.5
15	3.8	5.5	0.1	5.6	31	NA	0.0	NA	NA
16	3.4	4.5	0.3	4.8	Avg. Mo.	3.8	5.4	0.2	5.6

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
6-Nov-21	0435	6-Nov-21	0528	0.88	21-0051	ACHD# 22155; Faulty Moore Controller

** Redundant Equipment or No Environmental Impact

Total: 0.9
Percent Availability of COG Desulf. Plant (Monthly) 99.88%

*** 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	
2-Nov-21	2	9:17	9:18	1	0	Yes		Lost Axi Compressor #2 Control Room
2-Nov-21	B	9:17	9:18	1	0	Yes		Lost Suction to B Battery
2-Nov-21	C	9:17	9:18	1	0	Yes		Lost Suction to C Battery

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QUENCH TOWER OUTAGE SUMMARY *

System	Start Date	Time	End Date	Time	Hrs. Out	# Ovens Not Baffled	USS BRK&DWN #	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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COKE PLANT OPERATION DATA
USX CORPORATION - USS CLAIRTON WORKS (Please print or type)

for Month: 11

Year: 2021

Pushing Control Outage Summary
(1 Hour or Less Duration)

System	Date	Turn	# Ovens Not PEC	Reason(s) for Outage
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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
19 Battery Stack	09-Nov-21	1544	09-Nov-21	2100	5.3	21-0052	Reversing fault on C battery

* Attach additional pages if necessary