



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

May 17, 2024

Mr. Gary Ficshman  
Coke Oven Engineer  
Allegheny County Health Department  
Department of Air Quality  
836 Fulton Street  
Pittsburgh, PA 15233-8144

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 April, 2024. 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)**

for Month: 4 Year: 2024 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)              | 11,472                |
| Coke Produced (Tons)             | 8,643                 |
| Total COG Produced (MMCF)        | 147.7                 |
| Quench Water Used (Gallons)      | 1,426,000 (Estimated) |
| Elemental Sulfur Produced (Tons) | 34.0                  |
| Sulfur Content of Coal (%)       | 1.04                  |
| Sulfur Content of Coke (%)       | 0.84                  |

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

|                 | Total Pushes | Total Pushes<br>Controlled | % of Pushes<br>Controlled |
|-----------------|--------------|----------------------------|---------------------------|
| System 13,14,15 | 4185         | 4145                       | 99.04%                    |
| System 19,20    | 5394         | 5332                       | 98.85%                    |
| "B" Battery     | 2499         | 2499                       | 100.00%                   |
| "C" Battery     | 3044         | 3044                       | 100.00%                   |
| <b>Total</b>    | <b>15122</b> | <b>15020</b>               | <b>99.33%</b>             |

**PUSHING CONTROL OUTAGE SUMMARY \***

| System       | Start Date | Time | End Date  | Time | Hrs. Out | # Ovens Not PEC | USS BRKDWN # | Reason(s) for Outage                                |
|--------------|------------|------|-----------|------|----------|-----------------|--------------|---|
| 19 20 PEC    | 02-Apr-24  | 1016 | 02-Apr-24 | 1128 | 1.20     | 8               | 24-0009      | ACHD #22762; Loss of power to PEC hood car.         |
| 13 14 15 PEC | 12-Apr-24  | 0219 | 12-Apr-24 | 0715 | 4.93     | 40              | 24-0012      | ACHD #22769; Loss of power to PEC hood car.         |
| 19 20 PEC    | 17-Apr-24  | 2003 | 17-Apr-24 | 2145 | 1.70     | 5               | 24-0017      | ACHD #22774; Clearance checks for new PEC hood car. |
| 19 20 PEC    | 18-Apr-24  | 1440 | 18-Apr-24 | 2045 | 6.08     | 35              | 24-0018      | ACHD #22775; Clearance checks for new PEC hood car. |
| 19 20 PEC    | 23-Apr-24  | 1630 | 23-Apr-24 | 1915 | 2.75     | 14              | 21-0020      | ACHD #22778; Clearance checks for new PEC hood car. |

**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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DESULFURIZATION PLANT DATA  
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**H2S OR EQUIVALENT H2S (GR./100 DSCF) IN:**

| Date | 1<br>% of Raw COG | 2<br>Clean COG | 3<br>Tail Gas | 2 + 3 | Date     | 1<br>% of Raw COG | 2<br>Clean COG | 3<br>Tail Gas | 2 + 3 |
|------|-------------------|----------------|---------------|-------|----------|-------------------|----------------|---------------|-------|
| 1    | 2.9               | 4.3            | 0.3           | 4.6   | 17       | 2.7               | 4.3            | 1.3           | 5.6   |
| 2    | 3.0               | 3.9            | 0.2           | 4.0   | 18       | 2.5               | 4.4            | 0.7           | 5.1   |
| 3    | 2.8               | 3.7            | 0.2           | 3.9   | 19       | 2.6               | 4.8            | 0.3           | 5.1   |
| 4    | 2.5               | 3.2            | 0.3           | 3.5   | 20       | 2.7               | 4.3            | 0.4           | 4.7   |
| 5    | 2.5               | 3.3            | 0.3           | 3.6   | 21       | 2.8               | 5.1            | 0.3           | 5.5   |
| 6    | 2.6               | 3.7            | 0.2           | 3.9   | 22       | 2.5               | 4.5            | 0.4           | 4.9   |
| 7    | 2.7               | 3.5            | 0.3           | 3.7   | 23       | 2.6               | 4.9            | 0.4           | 5.3   |
| 8    | 2.7               | 3.8            | 0.2           | 4.0   | 24       | 2.7               | 5.0            | 0.4           | 5.4   |
| 9    | 2.8               | 3.5            | 0.1           | 3.6   | 25       | 2.8               | 4.4            | 0.3           | 4.7   |
| 10   | 2.9               | 4.4            | 0.3           | 4.7   | 26       | 2.8               | 5.1            | 0.5           | 5.5   |
| 11   | 2.8               | 5.4            | 0.2           | 5.6   | 27       | 2.9               | 5.1            | 0.2           | 5.4   |
| 12   | 2.7               | 6.2            | 0.4           | 6.5   | 28       | 2.9               | 5.2            | 0.3           | 5.5   |
| 13   | 2.7               | 6.3            | 0.2           | 6.5   | 29       | 2.9               | 5.4            | 0.3           | 5.7   |
| 14   | 1.9               | 6.0            | 0.4           | 6.4   | 30       | 2.8               | 5.8            | 0.4           | 6.2   |
| 15   | 2.3               | 6.2            | 0.2           | 6.4   | 31       | NA                | 0.0            | NA            | NA    |
| 16   | 2.5               | 5.9            | 0.3           | 6.2   | Avg. Mo. | 2.7               | 4.8            | 0.3           | 5.1   |

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 |
|------|------------|----------|------|----------|---------------|-------|
|      |            |          |      |          |               |       |

\*\* 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 |   |
| 21-Mar-24 | C       | 22:00      | 22:35    | 35       | 0       | Yes    |    | battery was due to a broken arm on the rexa gate valve for the south end flare stack. |

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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 |
|--------|------------|------|----------|------|----------|---------------------|---------------|----------------------|
|--------|------------|------|----------|------|----------|---------------------|---------------|----------------------|

\* 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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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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for Month: 4

Year: 2024

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

| System | Date | Turn | # Ovens<br>Not PEC | Reason(s) for Outage |
|--------|------|------|--------------------|----------------------|
|--------|------|------|--------------------|----------------------|

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