



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

October 13, 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 September, 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 that reads "Mark A. Jeffery".

Mark A. Jeffery
Plant Manager
Clairton Works

Attachment

**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: 9 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) | 11,665 |
| Coke Produced (Tons) | 8,743 |
| Total COG Produced (MMCF) | 150.8 |
| Quench Water Used (Gallons) | 1,443,000 (Estimated) |
| Elemental Sulfur Produced (Tons) | 33.7 |
| Sulfur Content of Coal (%) | 1.00 |
| Sulfur Content of Coke (%) | 0.81 |

PUSHING CONTROL SYSTEM(S) - MONTHLY AVAILABILITY

| | Total Pushes | Total Pushes Controlled | % of Pushes Controlled |
|-----------------|--------------|----------------------------|---------------------------|
| System 13,14,15 | 4129 | 4129 | 100.00% |
| System 19,20 | 5484 | 5418 | 98.80% |
| "B" Battery | 2502 | 2502 | 100.00% |
| "C" Battery | 2858 | 2858 | 100.00% |
| Total | 14973 | 14907 | 99.56% |

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 | 14-Sep-23 | 0247 | 14-Sep-23 | 0845 | 5.97 | 26 | 23-0016 | ACHD #22609; PEC Power Supply Fault |
| 19 20 PEC | 17-Sep-23 | 0930 | 17-Sep-23 | 1500 | 5.50 | 40 | 23-0017 | ACHD #22616; PEC Hood Drive Fault |

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

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

for Month: 9 Year: 2023 BAPC Use Only
Date Received: _____
(to be received by the Bureau no later than 20 days after the end of each month)

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 | 3.2 | 5.2 | 0.4 | 5.6 | 17 | 3.4 | 5.3 | 0.2 | 5.5 |
| 2 | 3.5 | 6.3 | 0.1 | 6.5 | 18 | 3.2 | 4.7 | 0.2 | 4.9 |
| 3 | 3.6 | 6.3 | 0.3 | 6.6 | 19 | 3.1 | 4.7 | 0.2 | 4.9 |
| 4 | 3.5 | 6.5 | 0.2 | 6.7 | 20 | 3.2 | 5.0 | 0.3 | 5.3 |
| 5 | 3.6 | 6.8 | 0.5 | 7.3 | 21 | 3.3 | 5.4 | 0.2 | 5.6 |
| 6 | 2.9 | 5.7 | 0.2 | 5.9 | 22 | 3.3 | 4.7 | 0.3 | 5.0 |
| 7 | 2.7 | 6.6 | 0.2 | 6.8 | 23 | 3.5 | 5.2 | 0.2 | 5.4 |
| 8 | 3.4 | 7.9 | 0.2 | 8.1 | 24 | 3.5 | 5.4 | 0.2 | 5.6 |
| 9 | 3.5 | 6.8 | 0.2 | 7.0 | 25 | 3.2 | 4.9 | 0.2 | 5.1 |
| 10 | 3.5 | 6.0 | 0.2 | 6.2 | 26 | 3.5 | 6.5 | 0.2 | 6.7 |
| 11 | 3.1 | 5.0 | 0.2 | 5.2 | 27 | 3.6 | 6.5 | 0.5 | 7.0 |
| 12 | 3.3 | 5.2 | 0.2 | 5.4 | 28 | 3.2 | 6.0 | 0.2 | 6.2 |
| 13 | 3.6 | 5.8 | 0.4 | 6.1 | 29 | 3.4 | 6.2 | 0.3 | 6.5 |
| 14 | 3.3 | 5.0 | 0.3 | 5.3 | 30 | 3.6 | 5.7 | 0.2 | 5.9 |
| 15 | 3.2 | 5.1 | 0.3 | 5.4 | 31 | NA | 0.0 | NA | NA |
| 16 | 3.4 | 5.3 | 0.1 | 5.5 | Avg. Mo. | 3.3 | 5.8 | 0.2 | 6.0 |

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 | |

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: 9 Year: 2023 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 BRKDOWN # | Reason(s) for Outage |
|--------|------------|------|----------|------|----------|---------------------|---------------|----------------------|
|--------|------------|------|----------|------|----------|---------------------|---------------|----------------------|

* Attach additional pages if necessary

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: 9 Year: 2023
(to be received by the Bureau no later than 20 days after the end of each month)

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

* Attach additional pages if necessary

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: 9

Year: 2023

Pushing Control Outage Summary
(1 Hour or Less Duration)

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

* Attach additional pages if necessary

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: 9 Year: 2023
(to be received by the Bureau no later than 20 days after the end of each month)

STACK CONTROL SYSTEM(S) - MONTHLY AVAILABILITY

| Facility | Start Date | Time | End Date | Time | Duration Hrs. | USS Reference # | Reason(s) for Outage |
|----------|------------|------|----------|------|---------------|-----------------|----------------------|
|----------|------------|------|----------|------|---------------|-----------------|----------------------|

* Attach additional pages if necessary