



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

December 31, 2018

Ms. Karen M. Sagel  
Allegheny County Health Department  
Department of Air Quality  
301 Thirty-Ninth Street  
Pittsburgh, PA 15201

Subject: USS Reference Number: 18-0121  
ACHD Reference Number: 21256, 21257, 21258  
#2 & #5 Control Rooms; Battery Stacks  
USS Clairton Works

Dear Karen M. Sagel:

The attached form confirms the verbal report of the subject incident and satisfies the requirements of paragraph IV.8 of the Title V operating permit #0052 as issued on March 27th 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 Jonelle S. Scheetz at 412-233-1015.

Sincerely,

A handwritten signature in blue ink, appearing to read "S. J. Zelenski".

Steven J. Zelenski  
Acting Plant Manager  
Clairton Works

CC: James W. Hagedorn (USEPA)

**NOTICE OF OUTAGE OF EQUIPMENT**  
**ARTICLE XXI - SECTION 2108.1**

1. **USS Reference Number:** 18-0121  
**ACHD Reference Number:** 21256, 21257, 21258
2. **Date & Time of Breakdown:** Date: 12/24/18 Time: 0434 hours
3. **Company Name:** U.S. Steel Corporation - USS Clairton Works
4. **Specific Equipment Involved or Affected:** #2 & #5 Control Rooms; Coke Oven Gas Combustion Sources (including underfire combustion stacks)
5. **BAPC Permit Number (if applicable):** #0052
6. **Location:** Clairton, PA
7. **Nature and cause of breakdown:** A fire occurred which required the immediate shutdown of the #2 & #5 Control Rooms for the safety of the employees and equipment. The cause of the fire remains under investigation. The emergency shutdown of #2 and #5 Control Rooms necessitates the by-pass of coke oven gas to the downriver systems. The affected buildings are being evaluated for structural safety. Once the structural safety evaluation is complete; and any necessary measures employed based upon the evaluation, the buildings can be accessed to determine impacts and damage to the systems; and what actions will be needed to bring the facility back to normal operation. The 35 grain H<sub>2</sub>S limit was exceeded.
8. **Identification of Emissions:**
  - A. **Type(s) (CO, NOX, SO<sub>2</sub>, Particulates, Hydrocarbons, etc.)**  
Elevated H<sub>2</sub>S in the downriver gas line systems, with potential increases of SO<sub>2</sub>, VOCs, and total reduced sulfur. The breakdown may also cause increases of emissions at coke oven gas combustion sources at Irvin and ET, in addition to Clairton. Clairton combustion stack emission particulate may potentially be elevated beyond those occurring during normal operations.
  - B. **Toxic qualities of each type (including its qualities as an irritant, and its potential for causing illness, disability, or mortality).** SO<sub>2</sub> is and VOC could be an eye, nose, and throat irritant.
  - C. **Amount of each type emitted (or likely to be emitted).**  
Light to Moderate

9. Measures taken (or to be taken) to minimize length of breakdown and amount of emissions, including shutdown or curtailment (or why it is impossible or impractical to do so).

Measures are being taken to bring the control rooms back on-line and natural gas is being utilized (displacing coke oven gas) to extent practicable during this period.

10. Facility back in operation - Date: Time: hours

USS continues to complete the investigation, USS also continues to employ mitigation measures. Once the investigation is complete, more information regarding the schedule to bring the facility back to normal operation can be provided.

Reviewed by Joelle S. Scheetz Date 12-31-18  
Joelle S. Scheetz  
Environmental Control Engineer Phone: 412-233-1015