



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

July 11, 2022

Company Name: U.S. Steel Corporation USS Clairton Works
Telephone Number: 412-233-1647
ACHD Breakdown Report #: 22350
Date and Time of Breakdown: July 4, 2022 05:30 AM
Date and Time Back on Line: July 5, 2022 10:30 PM
Duration of Breakdown: 41.0 Hours

A. Identification of the specific equipment which has broken down, its location and identification of all related devices, equipment, and other sources, which will be affected.

Power outage that affected operations, including #1 Control Room, #2 Control Room, #5 Control Room; and coke oven gas combustion sources.

Permit No. #0052

B. The nature and probable cause of the breakdown.

The Clairton Plant suddenly and unexpectedly lost all electrical power to the plant. Because of this, #1 Control Room, #2 Control Room, and #5 Control Room were inoperable, and coke oven gas from all batteries was flared as the system was designed and as required by our permit. After power was restored, the control rooms were safely and systematically brought back on line.

C. The expected length of time that the equipment will be inoperable or that the emissions will continue or that it is back online. Approximately 41.0 Hours

D. Identification of the specific material(s) which are being, or are likely to be, emitted and the estimated quantity of each material being, or likely to be, emitted. Include a statement concerning the materials toxic qualities, including its qualities as an irritant, and its potential for causing illness, disability, or mortality.

Until the sulfur plant at #5 control was back online, elevated H₂S in the coke oven gas combusted at the Mon Valley Works was expected with potential increases of SO₂ emissions. Until the #2 control room was back online there were potential increases of VOC emissions. At certain elevated levels, SO₂ and VOC have been identified by EPA as potential eye, nose, and throat irritants.

E. Measures, including extra labor and equipment, taken or to be taken to minimize the length of the breakdown, the amount of air contaminants emitted, or the ambient effects of the emissions, together with the implementation schedule.

During the time the Clairton Plant was without power, the coke oven batteries all were utilizing their emergency flare stacks to prevent the release of raw coke oven gas to the atmosphere. All Batteries were put on extended coking time. No pushing or charging occurred while the plant was without electrical power. As power was restored to the Clairton Plant; the #1 Control Room, #2 Control Room, and #5 Control Rooms were systematically returned to operation starting with #1 Control first, then to #2, and #5. Additional US Steel and Contractor resources and labor were dispatched to minimize the duration of the breakdown. The local ambient air quality monitors did not measure exceedances during this event.



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Reviewed by: Michael G. Dzurinko

Title: Michael G. Dzurinko
Environmental, Mon Valley Works

Date: 7/11/2022