



U. S. Chemical Safety and Hazard Investigation Board

RECOMMENDATION STATUS CHANGE SUMMARY

Report:	United States Steel Corporation Clairton Plant Coke Oven Explosion
Recommendation Number:	2025-03-I-PA R4
Date Issued:	August 10, 2026
Recipient:	U.S. Steel
New Status:	Open – Awaiting Response or Evaluation/Approval of Response
Date of Status Change:	Not Applicable – Initial Status

Recommendation Text:

Conduct a hazard analysis or safety validation of the written valve washing procedure in accordance with NFPA 56 Standard for Fire and Explosion Prevention During Cleaning and Purging of Flammable Gas Piping Systems. Ensure that workers who will or might perform the operation are involved in the analysis or validation.

Board Status Change Decision:

A. Rationale for Recommendation

On August 11, 2025, a loss of containment of coke oven gas at the U.S. Steel Clairton Coke Works facility in Clairton, PA resulted in an explosion. The loss of containment occurred when a valve in a coke oven battery was over pressurized during maintenance. The explosion fatally injured two workers, injured eleven other workers, and resulted in \$52.2 million in property damage.

The U.S. Chemical Safety and Hazard Investigation Board (CSB) investigated the incident and found several safety issues including deficiencies in process safety management such as a lack of procedures and ineffective hazard analyses. Facility siting was specifically noted as a deficiency during the investigation. As a result of these findings, the CSB issued five recommendations to U.S. Steel. This status change summary addresses CSB Recommendation No. 2025-03-I-PA R4.