



U.S. Chemical Safety and Hazard Investigation Board

OFFICE OF GENERAL COUNSEL

Memorandum

To: Board Members

From: Christopher M. Lyon Christopher Michael Lyon
Acting General Counsel Michael Lyon
Digitally signed by Christopher Michael Lyon
Date: 2024.11.18 15:40:03 -07'00'

Cc: Amanda Johnson
Adam Henson
Leadership Team

Subject: Board Action Report – Notation Item 2025-13

Date: November 18, 2024

On November 18, 2024, the Board approved Notation Item 2025-13, thereby designating Recommendation 2021-01-I-TN-R6, to Wacker Polysilicon, from the Wacker Polysilicon Chemical Release investigation (2021-01-I-TN), with the status of Closed – Acceptable Action.

Voting Summary – Notation Item 2025-13

Disposition: APPROVED

Disposition date: November 18, 2024

	Approve	Disapprove	Calendar	Not Participating	Date
S. Johnson	X				11/18/2024
S. Owens	X				11/18/2024
C. Sandoval	X				11/18/2024



U. S. Chemical Safety and Hazard Investigation Board RECOMMENDATION STATUS CHANGE SUMMARY

Report:	Wacker Polysilicon Chemical Release
Recommendation Number:	2021-01-I-TN-R6
Date Issued:	June 15, 2023
Recipient:	Wacker Polysilicon
New Status:	Closed – Acceptable Action
Date of Status Change:	November 18, 2024

Recommendation Text:

Develop Install additional means of egress for the T230 desorption tower platforms and other multi-floor equipment structures on-site. After completing these installations, ensure workers are made aware of exit locations from the structure platforms through training, drills, or other techniques as appropriate.

Board Status Change Decision:

A. Rationale for Recommendation

On November 13, 2020, a graphite heat exchanger cracked during maintenance activities, releasing anhydrous hydrogen chloride at the Wacker Polysilicon facility in Charleston, Tennessee. The incident occurred on the fifth floor of an equipment access structure when a contractor applied excessive torque to flange bolts on the heat exchanger's discharge pipe.

Seven workers from two contracted companies were in close proximity to the release. The location of the release prevented the workers from accessing the platform's single means of egress. While attempting to escape by climbing down piping on the side of the structure, three of the workers fell to the ground, fatally injuring one and seriously injuring the other two. The other four workers remained in place until the release ended. One of these four workers sustained chemical burns from the release due to a rip in their personal protective equipment (PPE). The remaining three workers were uninjured.

The U.S. Chemical Safety and Hazard Investigation Board (CSB) investigated the incident and found several safety issues including ineffective written procedures, control of hazardous energy, and management of hazards during simultaneous operations (SIMOPs), as well as an insufficient means of egress from the platform. As a result of these findings, the CSB issued four recommendations to Wacker Polysilicon. This status change summary addresses CSB Recommendation No. 2021-01-I-TN-R6.

B. Response to the Recommendation

Wacker Polysilicon notified the CSB that additional means of egress have been provided for the T230 desorption tower platforms and other multi-floor equipment structures on-site.

Additionally, Wacker has trained their workers on the use of these new means of egress. Upon review of the information provided, the CSB concluded that Wacker's actions satisfy all elements of the recommendation.

C. Board Analysis and Decision

Based upon the information above, the Board voted to change the status of CSB Recommendation No. 2021-01-I-TN-R6 to: "Closed – Acceptable Action."