

U.S. Chemical Safety and Hazard Investigation Board

OFFICE OF GENERAL COUNSEL

Memorandum

To:	Board Members		
From:	Christopher M. Lyon Acting General Counsel Michael Lyon -0700		
Cc:	Amanda Johnson Adam Henson Leadership Team		
Subject:	Board Action Report – Notation Item 2025-11		
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Date: November 18, 2024

On November 18, 2024, the Board approved Notation Item 2025-11, thereby designating Recommendation 2018-03-I-TX-R4, to Kuraray America, Inc., from the Kuraray Pasadena Release and Fire investigation (2018-03-I-TX), with the status of Closed – Acceptable Action.

Voting Summary – Notation Item 2025-11

Disposition: APPROVED

Disposition date: November 18, 2024

	Approve	Disapprove	Calendar Not Partic	Date 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:	Kuraray Pasadena Release and Fire
Recommendation Number:	2018-03-I-TX-R4
Date Issued:	December 21, 2022
Recipient:	Kuraray America, Inc.
New Status:	Closed – Acceptable Action
Date of Status Change:	November 18, 2024

Recommendation Text:

Develop and implement a policy detailing how to effectively address recommendations generated from company process safety management systems, including audits, incident investigations, management of change, and process hazard analysis that is consistent with existing OSHA guidance. Include a periodic training requirement for managers and other employees involved in evaluating and managing proposed recommendations to help ensure safety improvements are effectively evaluated and appropriately implemented.

Board Status Change Decision:

A. Rationale for Recommendation

On the morning of May 19, 2018, the pressure relief devices of a reactor used to make ethylene and vinyl alcohol copolymer (EVAL) activated and discharged ethylene into the air through horizontally oriented discharge piping. The resulting flammable vapor cloud found a heat source and ignited. The fire burned for approximately three minutes until enough ethylene was released to reduce the pressure inside the reactor to allow the pressure relief valve to close. Kuraray American, Inc. (Kuraray) reported releasing 2,347 pounds of ethylene. Several workers sustained injuries resulting from the fire as well as from trying to escape the fire. Twenty-one injured workers were transported to off-site medical facilities for treatment. Additionally, two workers were life-flighted from the Kuraray facility.

The U.S. Chemical Safety and Hazard Investigation Board (CSB) investigated the incident and found several safety issues including failures in pressure-relief system discharge design, excluding non-essential personal during transient operations, and weakly implemented process safety management system elements. As a result of these findings, the CSB issued twelve recommendations to Kuraray. This status change summary addresses CSB Recommendation No. 2018-03-I-TX-R4.

B. <u>Response to the Recommendation</u>

Kuraray notified the CSB that the company has updated its corporate process hazard analysis policy and its training program to address all recommendations from audits, incident

investigations, and management of change. Upon review of the relevant documentation provided, the CSB concluded that Kuraray's actions satisfy all elements of the recommendation.

C. Board Analysis and Decision

Based upon the information above, the Board voted to change CSB Recommendation No. 2018-03-I-TX-R4 to: "Closed – Acceptable Action."