



U.S. Chemical Safety and Hazard Investigation Board

OFFICE OF GENERAL COUNSEL

Memorandum

To: Board Members

From: Steven Messer
Acting General Counsel

Cc: Charles Barbee
Adam Henson
Leadership Team

Subject: Board Action Report – Notation Item 2025-70 | Recommendation to Marathon Martinez Renewables (2024-01-I-CA-R1) from the Marathon Martinez Renewable Fuels Fire investigation (2024-01-I-CA)

Date: July 28, 2025

On July 25, 2025, the Board approved Notation Item 2025-70, thereby designating Recommendation 2024-01-I-CA-R1 to Marathon Martinez Renewables from the Marathon Martinez Renewable Fuels Fire investigation (2024-01-I-CA) with the status of Closed – Acceptable Action.

Voting Summary – Notation Item 2025-70

Disposition: APPROVED

Disposition date: July 25, 2025

	Approve	Disapprove	Calendar	Not Participating	Date
S. Johnson	X				7/25/2025
S. Owens	X				7/25/2025
C. Sandoval	X				7/25/2025



U. S. Chemical Safety and Hazard Investigation Board

RECOMMENDATION STATUS CHANGE SUMMARY

Report:	Marathon Martinez Renewable Fuels Fire
Recommendation Number:	2024-01-I-CA-R1
Date Issued:	March 13, 2025
Recipient:	Marathon Martinez Renewables
New Status:	Closed – Acceptable Action
Date of Status Change:	July 25, 2025

Recommendation Text:

Implement engineering safeguards to detect and prevent afterburning in the fired heater involved in the November 19, 2023, incident. The safeguards may include the use of instrumentation such as combustibles measurements, flame detectors, and/or thermocouples that measure tube metal, flue gas, and process fluid temperatures. The safeguards shall be capable of being monitored from the control room.

Board Status Change Decision:

A. Rationale for Recommendation

On November 19, 2023, a fire erupted when a metal tube within a fired heater ruptured during the initial startup of a renewable diesel hydroprocessing unit at the Marathon Martinez Renewables facility in Martinez, California. A lack of process flow due to valve misalignment combined with afterburning due to poor combustion conditions caused overheating of the tubes leading to the rupture and fire.

One employee received third-degree burns over 80 percent of his body during the incident and remained in critical condition for a period of over six months. Marathon Petroleum Corporation estimated that over 200,000 pounds of renewable diesel and 2,200 pounds of hydrogen were released. The incident resulted in approximately \$350 million in damage.

The U.S. Chemical Safety and Hazard Investigation Board (CSB) investigated the incident and found several safety issues including those associated with safe operating limits, worker proximity to fired heaters, low flow through fired heaters, burner operation, valve misalignment, and corporate oversight. As a result of these findings, the CSB issued four recommendations to Marathon Martinez Renewables (MMR) and three recommendations to Marathon Petroleum Corporation (MPC). This status change summary addresses CSB Recommendation No. 2024-01-I-CA-R1.

B. Response to the Recommendation

MPC has notified the CSB that they have installed a new safeguard which continuously monitors oxygen, carbon monoxide, and methane within the fired heater involved in the incident. This

safeguard is integrated into the heater's control system and automatically adjusts conditions within the heater to prevent afterburning and other adverse conditions. It provides a reading in the control room and alarms at pre-determined levels. Upon review of documentation submitted by MPC, the CSB concluded that all requirements of the recommendation have been met.

C. Board Analysis and Decision

Based upon the information above, the Board voted to change CSB Recommendation Nos. 2024-01-I-CA-R1 to: "Closed – Acceptable Action."