



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

<b>Report:</b>	Martinez Renewable Fuels Fire
<b>Recommendation Number:</b>	2024-01-I-CA-R2
<b>Date Issued:</b>	March 13, 2024
<b>Recipient:</b>	Marathon Martinez Renewables
<b>New Status:</b>	Open – Awaiting Response or Evaluation/Approval of Response
<b>Date of Status Change:</b>	Not Applicable – Initial Status

### Recommendation Text:

*For the fired heater involved in the incident, after Marathon Petroleum Corporation’s “Process Heater Not-to-Exceed (NTE) Limits and Alarms” standard is updated according to 2024-01-I-CA-R5, implement tube metal temperature alarming consistent with corporate guidance to alert operators when safe operating limits are exceeded and to specify predetermined response actions, such as shutting down the fired heater remotely. The predetermined response actions must include actions that specify when to stop troubleshooting and remove personnel from the vicinity of the fired heater.*

### 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. This status change summary addresses CSB Recommendation No. 2024-01-I-CA-R2.