



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

<b>Report:</b>	Remote Isolation of Process Equipment
<b>Recommendation Number:</b>	2024-01-H-R1
<b>Date Issued:</b>	July 25, 2024
<b>Recipient:</b>	American Petroleum Institute (API)
<b>New Status:</b>	Open – Acceptable Response or Alternate Response
<b>Date of Status Change:</b>	March 16, 2026

### Recommendation Text:

*Develop a new publication or revise an existing publication or publications that should be applicable to various facility types such as refineries, chemical and petrochemical facilities, terminals, etc. with major process equipment and atmospheric storage tanks, that details conditions that necessitate the installation of remote isolation devices [use “shall” instead of “should” language] that may be automatically activated or remotely activated from a safe location, particularly during an emergency. When establishing these conditions refer to the guidance published by CCPS entitled Guidelines for Fire Protection in Chemical, Petrochemical, and Hydrocarbon Processing Facilities, Sections 8.1.10 and 8.1.11. At a minimum, the conditions should address major process equipment and atmospheric storage tanks, material volumes/weight as well as flammability, corrosivity, and toxicity.*

### Board Status Change Decision:

#### A. Rationale for Recommendation

On The U.S. Chemical Safety and Hazard Investigation Board (CSB) has reviewed and investigated numerous incidents where the consequences escalated following a loss of containment due to the lack of effective remote isolation equipment. These incidents resulted in serious injuries, fatalities, environmental contamination, and severe damage to facilities.

Following the 2019 incident at the TPC Group chemical plant in Port Neches, TX, the CSB concluded that improved requirements for remote isolation are necessary. The CSB initiated this Safety Study to review the incidents investigated by the CSB and determine the action needed to address deficiencies in both industry guidance and federal regulations.

The CSB found that although guidance has been available for many years, it has not been consistently followed. The CSB concluded that stronger remote isolation requirements are needed. As a result of these findings, the CSB issued one recommendation to the American Petroleum Institute (API). This status change summary addresses CSB Recommendation No. 2024-01-H-R1.

B. Response to the Recommendation

API has notified the CSB that they intend to implement the recommendation. They have provided a plan of action and proposed language for inclusion in API Recommended Practice 553 *Refinery Valves and Accessories for Control and Safety Instrumented Systems* that appears to satisfy the objectives of the recommendation. Additionally, they have provided a timetable for completion.

C. Board Analysis and Decision

Based upon the information above, the Board voted to change CSB Recommendation No. 2024-01-H-R1 to: “Open – Acceptable Response or Alternate Response.”