



# Office of Recommendations

- Highlighted Recommendations
  - **Gas Well Blowout and Fire at Pryor Trust Well 1H-9**
    - R5 to API
    - R8 to Patterson/UTI
  - **Tesoro Refinery Fatal Explosion and Fire**
    - R14 to Marathon Petroleum Corp. (formerly Tesoro Refining & Marketing Co.)
  - **Chevron Refinery Fire**
    - R27 to API
    - R36 to Contra Costa County
    - R37 to the City of Richmond



## Gas Well Blowout and Fire at Pryor Trust Well 1H-9



CSB Rec No. 2018-01-I-OK-R5 (R5) to API:

*Develop a new or modify an existing recommended practice addressing the protection of rig workers on onshore drilling rigs from fire and explosion hazards in the event of a blowout.*

**Closed – Acceptable Action**



## Gas Well Blowout and Fire at Pryor Trust Well 1H-9

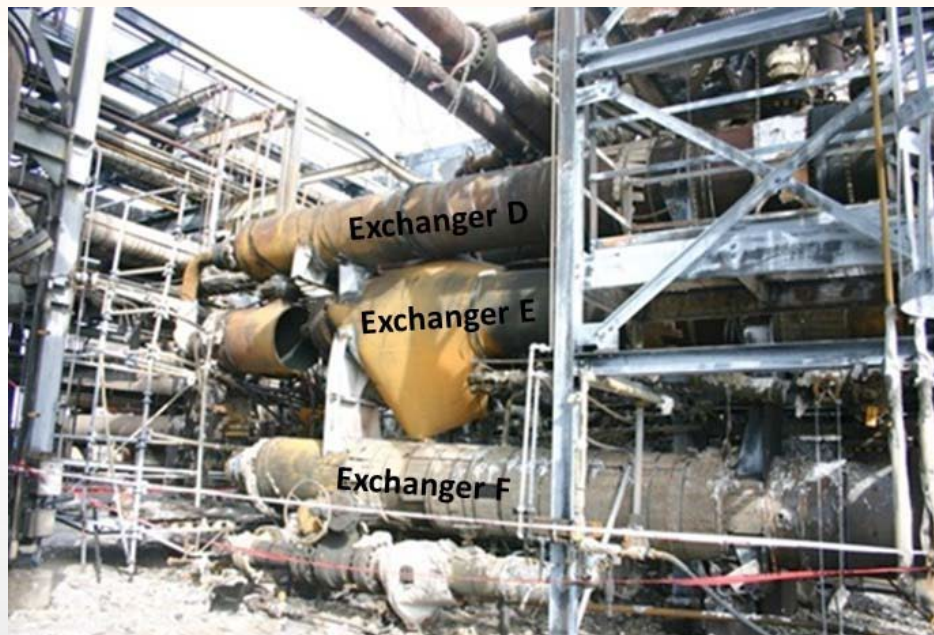


CSB Rec No. 2018-01-I-OK-R8 (R8) to Patterson/UTI:  
*Develop and implement an alarm philosophy and alarm rationalization for various types of rig operations.*

**Closed – Acceptable Alternative Action**



## Tesoro Refinery Fatal Explosion and Fire



CSB Rec No. 2010-08-I-WA-R14 (R14) to Marathon:  
*Improve the safety management system to better identify hazards in order to prevent future incidents.*

**Closed – Acceptable Action**

## Chevron Refinery Fire



CSB Rec No. 2012-03-I-CA-R27 (R27) to API:

*Promote awareness of increased rates of sulfidation corrosion occurring in low-silicon carbon steel. Reference documents that provide guidance on conducting component inspections or pipe replacement.*

**Closed – Acceptable Action**



## Chevron Refinery Fire



CSB Rec No. 2012-03-I-CA-R37 to Contra Costa County:  
CSB Rec No. 2012-03-I-CA-R37 to City of Richmond:  
*Revise regulations to require petroleum refineries to have a process safety culture continuous improvement program that includes publicly available safety culture audits and a diverse oversight committee.*

**Closed – Acceptable Alternative Action**