

**CASE HISTORY**

Hydrotreater Stripper Tower, Coolers and Condensers at a petroleum refinery were successfully degassed and iron sulfide scale was deactivated in just 12 hours

**Results Achieved**

Benzene and hydrogen sulfide free

Zero LEL's after 12 hours of vapor phase steam injection

No iron sulfide combustion

Chemicals Utilized**FQE LEL-V****FQE H₂S Scavenger****FQE Pyrophoric**

A petroleum refinery in the Northern United States used FQE® LEL-V, FQE H₂S Scavenger and FQE Pyrophoric to decontaminate and degas their hydrotreater stripper tower and related equipment.

The equipment was decontaminated of iron sulfide scale, LEL content gases and hydrogen sulfide from the process. Decontamination was required for scheduled maintenance work.

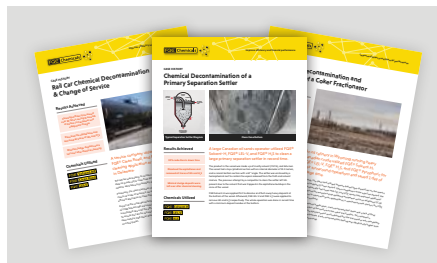
The equipment was cleaned by vapor phase steam injection with FQE H₂S Scavenger and FQE LEL-V for degassing of hazardous vapors. It was then treated with FQE Pyrophoric to deactivate the iron sulfide scale.

After 12 hours of chemical injection, the equipment was successfully degassed with no benzene, hydrocarbon or hydrogen sulfide present on analysis. On opening the vessel, the equipment was clean and no iron sulfide scale combustion was encountered. The associated equipment was cleaned by liquid circulation as needed. The wash water was sent directly to waste water treatment without delay.

Previous work conducted by competitors had left noticeable hydrocarbon odors and there was none following FQE LEL-V application.



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