

Case Story



H2S Emissions at Truck Loading / Off-Loading Facility

Client:

Our client is the owner and operator of mature, conventional light oil assets in the western sedimentary basin. Our client is dedicated to best in class safe, productive, and efficient levels in their sites.

Challenge:

In 2020, the client required a solution for effectively handling the mixture of acid vapors emitted from their truck loading station at their facility, as they had to comply with Alberta's strict regulations on H2S gas dispersion. The company had a vapor recovery line for road trucks, and they needed a solution to manage the explosive vapor-air mixture that was released when loading crude oil into the trucks.

TCI Solution:

TCI conducted a thorough evaluation of the site and designed a specialized TCI incinerator to ensure compliance with AER regulations. To monitor compliance, a thermocouple was installed at the top of the stack to measure the stack top temperature. In the event that the temperature fell below 600°C, the thermocouple activated specialty burners, which introduced fuel gas into the incinerator. This innovative design achieved an exceptional combustion efficiency of over 99%, meeting regulatory requirements and gaining acceptance from the local community. The implementation of this comprehensive solution enabled our client to effectively manage the dispersion of acid vapors and maintained a high level of safety throughout the entire process.



INCREASED REGULATORY COMPLIANCE



ELIMINATED H2S EMISSIONS






Total Combustion Inc.



Engineered Simplicity

- Simple, straightforward & painless.
- Highly effective >99.9% combustion efficiency.
- 365 days of reliable uptime.
- Manufactured for longevity & dependability.

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