

/ Expro Excellence Pipeline & Flarestack

Expro provides industry-leading, portable flaring instrumentation unit for Lyondellbasell



Objectives

- Expro contacted by Lyondellbasell's pipeline operations, to develop a portable system that would meet both state and federal environmental requirements regarding portable flaring on highly reactive volatile organic component (HRVOC) applications

Expro Excellence

- Industry leader in portable flaring services
- Instrumentation to provide data such as calorimeters and metering systems are generally designed for permanent installation therefore Expro's priority was to develop a portable system for Lyondellbasell
- Designed a portable, self-contained instrumentation unit within an 8x16 enclosed trailer, to measure and record BTU (British thermal units) content of the waste gas stream

- Collaboration with Expro Meters specialists to incorporate a PassiveSONAR™ flow meter to measure and record flow of the waste gas stream
- Also provided capabilities to inject assist gas as needed to meet BTU content requirements
- Maintained a small footprint and quick rig up time

Value to client

- Without this solution, the client could have potentially released non-combusted hydrocarbons to the atmosphere, resulting in harm to the environment, increased emissions reporting and potential government fines
- Provided with recordable data to comply with state and federal requirements
- Reduction of harmful emissions released into the atmosphere
- Avoidance of costly fines
- Enhanced operational data

Emissions control within the pipeline industry has come under stricter scrutiny within the recent years, specifically when flaring HRVOC products.

Federal regulation 40 CFR 60.18 and Texas regulations TCA 30 Rules 115.725 and 106.492 state that when flaring HRVOC products minimum BTU content must be maintained. In many applications nitrogen is used to purge the system. When nitrogen is mixed with waste gas, the BTU content falls below the regulation requirements for complete destruction. In these cases, assist gas must be injected to increase the BTU content of the waste gas stream to ensure complete destruction of the waste gas.

Contact

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