



TOTAL CAPTURE GLYCOL DEHYDRATOR BENZENE EMISSIONS TESTING

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ACCURATE

BENZENE EMISSIONS DETERMINATION

THROUGH TOTAL CAPTURE METHODOLOGY

Our laboratories are able to provide two options for the determination of Benzene emissions from glycol dehydrators as per Energy Resources Conservation Board (ERCB) Directive 039.

TWO MAIN METHODS

Determination by GRI-GLYCalc™

Includes onsite sampling, laboratory analysis and GRI-GLYCalc™ modelling.

Total Capture

Entails an end of pipe measurement alternative to GRI-GLYCalc™. The still column vent emissions are diverted through a portable process unit designed to condense, collect, measure and sample the various phases in a still column vent stream. The analysis of each phase is performed by Gas Chromatography to determine the Benzene concentration. The results are reported for not only Benzene, but all B.T.E.X. components individually from each phase and also combined for a total emission determination.

TOTAL CAPTURE ADVANTAGES

The advantages of the "Total Capture" technique are many:

- Measurement of benzene emissions determined directly from the source;
- Continuous sampling over a longer period of time (hours) results in an improvement in the accuracy of the emission determination. GRI-GLYCalc™ requires spot samples to calculate annual emissions;
- Composition and flowrate of each phase (gas, condensate and water) measured and determined;
- Provides industry with an alternative method to facilitate important and costly investment decisions (condensing tank, and incinerator among others); and
- Separation of the phases allows representative samples to be taken. Less procedural errors (gas sampling for GRI-GLYCalc™ or bag sampling).

Both of these options are approved methodologies as outlined in Best Management Practices "Control of Benzene Emissions from Glycol Dehydrators" published by the Canadian Association of Petroleum Producers (CAPP).

WHY SGS?

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We provide innovative services and solutions for every part of the oil, gas and chemicals industry. Our global network of offices and laboratories and our dedicated team allow us to respond to your needs, when and where they occur. Our reputation for independence, excellence and innovation have established us as the market leaders in providing services that improve efficiency, reduce risk and deliver competitive advantage for you.

TO LEARN MORE ABOUT GLYCOL DEHYDRATOR EMISSIONS TESTING SOLUTIONS FROM SGS, CONTACT CAOGC.ALBERTA@SGS.COM FOR MORE INFORMATION.