

Vent Stream Emissions

The Customer

The Company is primarily engaged in the manufacture of industrial inorganic chemicals. Markets they serve include food, building & construction, health, medicine and transportation.

The Process

The Company uses a Pressure Swing Adsorption System (PSA) to recover VOCs from their marine terminal storage, loading and process vent streams.

PSA is a technology used to separate some gas species from a mixture of gases under pressure according to the species' molecular characteristics and affinity for an adsorbent material.

The discharge/emissions from the PSA system must be continuously monitored to meet permit requirements.

The Challenge

The Company was required to monitor for trace levels of EDC (ethylene dichloride) from the vent stream of the PSA system. They were very concerned about the selection of the emission analyzer for this application. It had to measure in the low ppm range, it had to be reliable and it had to be able to withstand the environmental conditions of the application. The wrong analyzer could cause shut down and the loss of time and revenue.

The Solution

The Company had been using Control Instruments' analyzers throughout their plants worldwide. They came to Control Instruments' for a solution.

They decided on the Model SNR650, Flame Ionization Detector. It is an industrial strength design that measures the emissions of total hydrocarbons and VOC's in the low parts per million range. The SNR650 is a high temperature unit that mounts directly onto the process ductwork, eliminating sample handling problems and resulting in fast and easy installation, low maintenance, less downtime, high reliability and very fast total system response.



SIC Code

- 2819: Industrial Inorganic Chemicals NEC

NAICS Code

- 325998: All Other Miscellaneous Chemical Product and Preparation Manufacturing