Flare Gas Monitoring System per 40CFR60 Subpart Ja

UNBOUND

Environmental Compliance

WHO WE ARE

"Our experience in diverse industries and collaboration with numerous manufacturers allow for application of best fit solutions. This expertise drives our design and engineering to achieve the safest, highest performing, lowest cost of ownership, and most robust analytical system solutions."

WHAT WE DO

Applied Controls is focused on the total Analyzer System from the sample point to sample return. We can design, engineer, build, start-up, train and service on-line continuous analyzer systems-from wall mounted units to complete shelter houses.

WHAT WE OFFER

- Environmental/Process Analyzer System Integration
- Analyzer System Engineering
- Sample Conditioning Systems
- Enclosure/Shelters
- F.A.T. Live Streaming
- Start-up/Commissioning/Training
- Field Service and Calibration
- Complete Turnkey Systems

VALUE-ADDED

- Technical Support
- Installation and Setup
- Maintenance
- Warranty

For more information on any of our products or services please visit us at: Analyzer-Systems.com

CERTIFIED ISO 9001:2015 COMPANY

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- While traditional post combustion CEMS methods per 40 CFR 60 will generally apply to the affected areas, the flare will be monitored prior to combustion requiring a more complex analyzer such as Gas Chromatograph, Tunable Diode Lasers, Optical Spectrometers and Converted SO2 Analyzers.
- HIGH RANGE TOTAL SULFUR COMPOUNDS—The total number represented by all sulfur bearing components including H2S, COS, CS2, Ethyl and Methyl Mercaptans are typically measured in the percent volume range.
- LOW RANGE TRACE H2S—Typically measured in the PPM range.
- BTU—The total calculated number defined by measuring all stream components.

A **flare** is an open-flame fuel gas combustion device used for burning off unwanted gas or flammable gas and liquids. The flare includes the foundation, flare tip, structural support, burner, igniter, flare controls including air injection or steam injection systems, flame arrestors, knockout pots, piping and header systems.

Safety is paramount in designing the Flare Gas Monitoring System. Since sample and calibrations standard will contain H2S/Combustible vapors. The Sample Conditioning System should be mounted in a heated enclosure and affixed to the outside wall of the shelter since all valve switching, filtering, and flow control could create multiple leak paths; isolating them from the inside of the shelter. Calibration Gas Cylinders, including flammable and toxic gases (H2S), should be mounted external to the shelter and not inside an enclosure or shelter. Ambient air monitors, as a minimum, should be mounted internal to the shelter including O2 oxygen deficiency, H2S, LEL. Sample bypass cannot be vented to the atmosphere due to flammable and potentially toxic gases, and therefore should be sent back to the flare line.

ADVANTAGES

- Applied Controls has over 75 years of combined experience in Sample Systems for all types of analytical measurements; including Gas Chromatography, moisture, etc.
- We can utilize any manufacturer's equipment that proves to be the best fit technology for the application needs.
- Our Engineering Staff are Sample System experts. We design your analytical systems from Sample Point to Return, covering everything in between.
- Our dedicated Service Engineers ensure our customers receive second to none support for all commissioning and on-demand service needs.

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