Application Case Study

Industry: Steel

Product: Vanguard Hydrogen Sulfide Detector

Application: Local monitoring of hydrogen sulfide in a coke plant

Process Material: Hydrogen Sulfide

Company: Global steel and mining company

Customer

Customer operates a coke manufacturing facility. The coke produced in the plant is transported to a steel mill. The coke manufacturing process results in numerous hazardous by-products such as toxic hydrogen sulfide (H_2S). H_2S needs to be monitored for personnel protection due to its lethal effect even in minute concentrations.

Challenge

Adding new gas measurement points in an existing facility can be inconvenient and very costly. Such costs includes obtaining 'hot' work permits, running conduits for wires across various elevations and can amount to about $10,000 per device.

Solution

Wireless gas detectors like the Vanguard can augment existing gas detection coverage with minimal financial and labor outlay. The Vanguard can be plugged-and-played anywhere in an existing WirelessHART mesh and perform its role as a first line of defense for H_2S monitoring.

Results

The Vanguard provided a cost effective additional layer of personnel protection against toxic H_2S. Devices can be easily deployed in locations known to emit H_2S and also redeployed readily if needed. Vanguard was interoperable with other WirelessHART devices, all of which was managed through an Emerson gateway.

Contact Information

For additional information please contact our application experts at +1 617-923-6977 or visit our website www.ueonline.com/vanguard.

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