OTIS INSTRUMENTS INC.

WHITE SHEETS FOR FUEL SUPPLIER IN TEXAS

WireFree Gas and Flame Detection Solution

Project Overview

Otis Instruments, Inc. provided a complete WireFree gas and flame detection solution for a fuel supplier in Texas. The installation was designed to improve safety monitoring across critical fuel handling operations while significantly reducing installation costs and infrastructure requirements.

By utilizing the OI-6000 and OI-5900 WireFree systems, the project eliminated the need for extensive hardwired conduit runs and trenching throughout the facility.

Installation Savings

The WireFree deployment provided major cost and labor reductions, including:

- Approximately 6,000 feet of conduit eliminated
- At least 1,000 feet of trenching avoided
- Reduced installation time and labor costs
- Simplified system integration and expansion capability

These savings allowed the fuel supplier to improve safety coverage while minimizing disruption to ongoing operations.

System Applications

Gas Detection Monitoring

Gas detectors were strategically installed at:

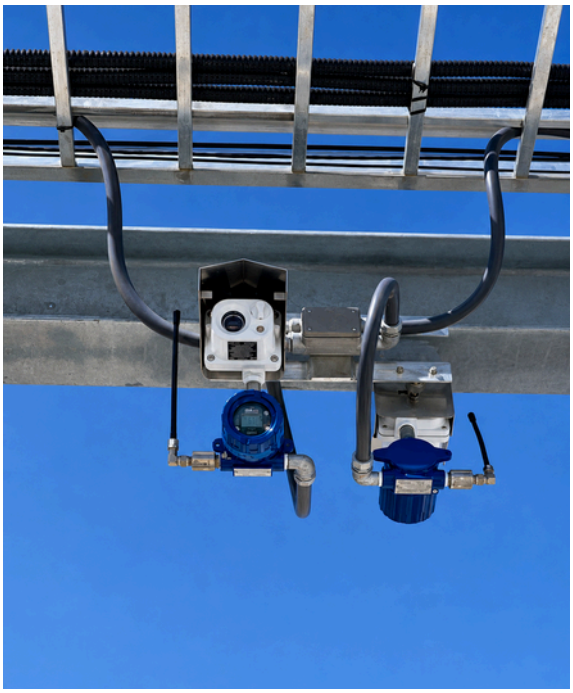
- Fuel pumps
- Storage tanks
- Offload dock areas
- Tanker barge unloading locations.

The system was configured to detect gasoline vapors and octane compounds, specifically:

Detected Gases

- Gasoline/Octane (C8H18)

The OI-6000-CB2-LEL-9-X-O system provided continuous combustible gas monitoring in hazardous areas throughout the facility.



Flame Detection Integration

Flame detectors were installed at truck loading stations to provide rapid flame event detection during fuel transfer operations,

Each flame detector was paired with an OI-5900 WireFree transmitter. The OI-5900 converted the detector's standard 4-20 mA output signal into a WireFree communication signal, allowing alarm and status data to be transmitted back to the central controller without the need for hardwired communication infrastructure.

Benefits of the WireFree Flame Detection System

- Eliminated additional conduit requirements
- Reduced installation complexity
- Enabled long range WireFree communication
- Improved scalability for future expansion
- Increased reliability in hazardous environments

Equipment Installed

- OI-6000-CB2-LEL-9-X-O
- OI-5900
- OI-860-00100
- OI-WFSB-65
- OI-D1xC1X05RDC024CB1A1R/R

Results

The completed installation provided the fuel supplier with a modern WireFree safety monitoring system capable of delivering reliable gas and flame detection coverage across critical operational areas.

By combining WireFree gas detection technology with WireFree flame detector integration, the facility achieved enhanced protection, lower installations costs, and greater operational flexibility.

Otis Instruments, Inc