



Dycor Technology Application Whitepaper

Petroleum Liquids Handling

Background

Dycor Technologies specializes in creating custom Data Acquisition and Industrial Control solutions using a combination of proprietary technology and off-the-shelf components. Applications for our products are deeply varied, and this whitepaper presents a functional example of a solution that can be developed and tailored for your specific needs.

Abstract

This whitepaper discusses the use of Dycors suite of technology solutions to create a robust solution for handling petroleum based liquids for fuel, solvent, or other hazardous liquid transfer and filling.

Problem

In the Oil and Gas industry, as well as Industrial Manufacturing, there are a number of situations in which there is a need to transfer petroleum liquids from one vessel to another. These operations can be hazardous to workers, or need to be performed at unexpected or unpredictable times. Filling and Transfer operations can expose workers to dangerous or risk bearing processes for which automation may be employed to improve efficiency, and employee safety.

Application Design

Using the Dycor suite of capabilities, transfer and filling operations can be automated, and made both more efficient and safer for workers.

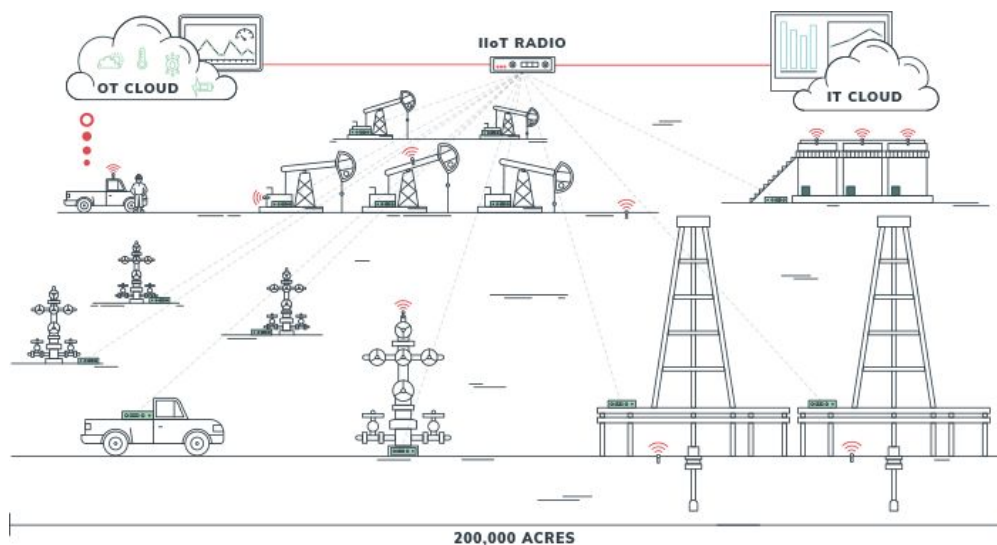
Application of the Dycor SmartVue controller and sensor technology can create a predictable and configurable pumping system, which can monitor both source and destination tank systems, control volumes and transfer rates, and maintain valve states with reporting on all operations.

SmartVue technology is ideal for these applications, being a Class I Div 2 rated device. Touchscreen functionality in all weather conditions ensures consistent operation, worker safety, and repeatability with volume accuracy.

Remote locations can be managed with Dycors transfer solutions, and data transmitted wirelessly to control and operation centres.

Dycor Custom Solution

- Petroleum rated electrically actuated valves
- Isolate Flow sensors
- Isolated Pressure sensors
- Touchscreen data acquisition and control with SmartVue
 - Data logging
 - PID Driven Automation
 - Consistent, repeatable operations with Reporting
- Wireless data communications to send flow, rate, volume data to control centres



Contacting Dycor

It doesn't matter if you're looking for help on a simple configuration issue with your data logger, or require custom developed, complex software programming for data acquisition systems to manage the data coming back from several hundred sensors – Dycor's technical team are here to get you up and running quickly and effectively.

Give us a call or [contact us on-line at www.dycor.com](http://www.dycor.com) requesting more information on how we can help you design and implement a data acquisition system that works for you.