

CASE STUDY: Texon



Company Overview

Texon was founded in 1989 and is an experienced energy organization which specializes in purchasing, transporting and marketing crude oil, natural gas and natural gas liquids. Texon has expertise in the installation and operation of high performance patented blending systems that blend light with heavy hydrocarbon liquids.

Background

Blending is required to adjust properties of the liquids such as the Reid Vapor Pressure (RVP). The RVP is a measure of the volatility of a liquid. Vapor pressure is critically important for both automotive and aviation gasoline, affecting starting, warm-up, and the tendency to vapor lock with high operating temperatures or high altitudes. Maximum vapor pressure limits for gasoline are legally mandated in some areas as a measure of air pollution control. These limits can vary depending on the seasons of the year.

Results

Texon's blending system is fully automated, extremely accurate and ensures compliance with EPA Standards. The blending subsystems consist of receiving, storage, injection and sampling components. Each component is computer controlled using PLC's (Programmable Logic Controllers). An HMI (Human Machine Interface) server acts as a data concentrator for the monitoring of system operation and safety notifications. Canary software plays a critical role in archiving and reviewing data for maintenance issues and performance.

The first component of the blending system is the receiving and storage process. This process discharges the liquid product from rail cars into high pressure storage tanks. Data is monitored from compressors, pumps, control valves, temperature sensors, and tank level sensors. The second component of the blending system is the

injection process. This blends the stored product into the target stream with extreme accuracy. In order to achieve this accuracy with reliability, the process monitors data from pumps, pressure sensors, control valves, temperature sensors and mass flow meters. Finally the sampling subsystems consist of pre-blend and post-blend analysis. RVP (Reid Vapor Pressure) and T v/l (Temperature for a vapor liquid ratio) are captured for EPA compliance and overall system performance.



Remote Locations

Blending systems are often located at remote locations. Data from these remote locations is logged on site to a remote Canary Historian and is then synchronized daily with the central Canary Enterprise Historian located at Texon's corporate office. This data is available for reports and review by support staff and management to ensure proper performance, injection efficiency and activity. Data from the storage subsystem is captured for inventory management, logistics and accounting analysis.

"Canary Trend Link is a valuable tool allowing us to graphically review archived data for maintenance issues and performance. Templates can be saved of commonly reviewed trends for quick future access. The export utility is used to generate viewed trends into reports for distribution. This trending software has proven to be a valuable asset in our day to day operations."

- Randy Walker, Control Systems Engineer

Configuration Overview:

- Canary Enterprise Historian
- Trend Link
- Canary DSSync
- Trend Reporter
- Trend Calculation Server
- Excel Add-In

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