ADMSE
Systems Engineering

PROJECT PROFILE

Natural Gas Tracking

Various Locations

DM provided software requirements definition, detail design, software configuration, commissioning services, testing and operator training for a tracking system for highway based compressed natural gas (CNG) transportation.

Our client developed eight sites to be used for the delivery of CNG via highway transport. The sites consist of a Mother Station where natural gas is accessed from a regional pipeline and compressed in design specific over the road containers for just in time delivery to multiple Daughter Stations where the gas is decompressed and consumed at industrial processing plants. ADM supplied a tracking and reporting system to monitor station processes, CNG usage and continuously report and display logged routing data. The system is relied on to provide timely delivery, usage forecasting and accurate billing.

To assist our client in developing this CNG Delivery Tracking System, ADM's objectives included:

❖ Confirm the purpose and scope of the CNG Delivery Tracking System;
❖ Complete the Software Requirements Specification for the CNG Delivery Tracking System including station function definitions, organizational reporting structure, alarm notifications and system operator requirements.
❖ Complete a design for the implementation of CNG Delivery Tracking System including metering, hardware, software, programming, installation, commissioning, and training of staff.

ADM provided a system based on OSISoft's PI Historian due to its proven reliability in industrial continuous monitor systems and ease of implementing complex calculations in real time and ability to allow secure web based access for the process plant operator to view process variables, gas usage and load/unload progress.

The system was designed to be controlled and monitored remotely since both the loading and unloading stations are typically unmanned.

The system was designed modularly to allow for the addition of future Mother and Daughter stations.