

TANK LEVEL SYSTEM MODERNIZATION

BACKGROUND

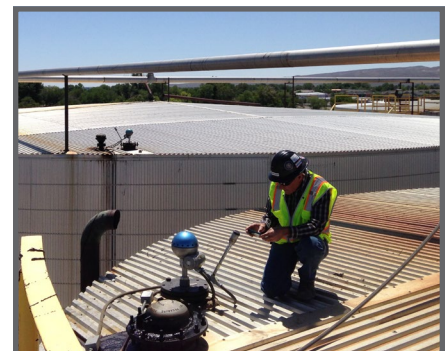
This customer is a major manufacturer and producer of paving and roofing asphalt products. With 15 storage tanks ranging in size from 300 to 11,000 tons and rail car access they are well positioned to serve west coast customers.

CHALLENGE

The current tank level monitoring system was not meeting their needs for real time data. The wireless tank level transmitters were sequentially updated resulting in several minutes of latency. GTH was called upon to find a solution to provide real time data and historical archiving for product storage to include volume and temperature. This data was important to the plant manager to assess their stored assets in relation to market price.

SOLUTION

To accommodate the required data collection and monitoring, a Phoenix Contact based 5GHZ wireless Ethernet network was installed for access to the level and temperature transmitters. The Phoenix solution offered seamless integration along with the reliability the customer needed for their application. With the network connectivity now available, they can use their existing HMI for real-time monitoring. GTH also recommended Wonderware's Historian and Software Toolbox's TOP server which provides flexible configuration tools and remote access capabilities. The operators can now utilize tablets for reporting and monitoring their plant systems.



BENEFITS

The company benefitted from the visibility offered by the system in regard to levels and temperatures in seconds instead of minutes. Additionally, they have added process control to include:

- Temperature control based on product storage data
- Tank heating fuel consumption
- Gas flow
- Real time and historical alarming
- Ad Hoc reporting
- Remote access & monitoring



Diamond Integrator



SYSTEM PLATFORM

