Optimizing saltwater disposal ticketing process

RESULTS

- Reduced operational cost and safety risk with elimination of windshield time for manual downloads

- More efficient haul ticket processing and corporate visibility of hauling information

- Improved billing accuracy with near real-time density from Coriolis meters

- Efficiencies due to remote access to salt water disposal facilities

APPLICATION

Zedi Cloud SCADA Platform
Zedi Access
Zedi Data Exchange

CUSTOMER

Company specializes in oilfield logistics for the Bakken Shale Area

CHALLENGE

Due to a manual haul ticket process, our customers staff was driving to saltwater disposal facilities to download the truck ticket information from an existing ROC800 panel with the Tank Manager Program, and then return to the head office to then upload the data to an internal database to process haul invoices to customers.

The process has created challenges with delayed haul ticket processing due to manual ticket downloads and accuracy based on salt water's correct composition. Staff driving back and forth to the site for data and information has increased operations cost and safety due to excessive, and unsafe windshield time.

To overcome their challenges, the customer would like to automate and optimize their saltwater disposal haul ticket process.

"Increased safety and speed is the name of our game - but, then adding in an annual savings of $2M in operating costs enables us to remain competitive in the industry even in harshest of temperatures, and fluctuating market conditions."

Oilfield logistics in the Bakken Shale Area
- Vice President of Operations

Zedi Cloud SCADA Solutions

EMERSON

SOLUTION

Initially, Emerson provided Microhard Modem packages to have the existing ROC800 RTU Panel with Tank Manager Program to create the truck haul tickets commissioned to the Emerson's Zedi Cloud SCADA Platform over a cellular network.

Zedi Cloud SCADA is a scalable cloud based IIoT platform for remote SCADA monitoring, control, and asset optimization. Our platform gives authorized users access to data through a web interface; Zedi Access, and the Zedi Go mobile app.

As well, our Emerson Impact Partner replaced Magnetic meters with Coriolis meters at three salt water disposal haul stations. Magnetic meters only captured the flow and not the density of the fluid. Coriolis meters measure the fluid density, helping determine the correct water density to ensure more accurate billing based on water density.

The Zedi Cloud platform will collect the data from the ROC800 Panel every five minutes, enabling our Customer with immediate access to view the last 20 truck haul tickets and near real-time Coriolis meter data. This will help them reduce windshield time to keep staff safer with fewer site visits.

Utilizing Zedi Data Exchange, the customer is able to create data pushes from Zedi Access to an internal database of the most recent truck tickets facilitating faster haul ticket processing and other data pushed to the Customers enterprise applications.

Overall, this solution ensures a more accurate, and faster ability that enable them to receive the latest haul ticket in 15 minutes (or less) to begin ticket processing for billing.

Automating this process has allowed the company to invoice with speed and accuracy while reducing costs and increasing efficiencies, and safety among their staff.

North America and Latin America
Global Headquarters
Emerson Automation Solutions
Remote Automation Solutions
6005 Rogerdale Road
Houston, TX, USA 77072
T: +1 281 879 2699

Europe
Emerson Automation Solutions
Remote Automation Solutions
Unit 1, Waterfront Business Park
Dudley Road, Drierley Hill
Dudley, UK DY5 1LX
T: +44 1384 487200

Middle East and Africa
Emerson Automation Solutions
Remote Automation Solutions
Emerson FZE
PO Box 17033
Jebel Ali Free Zone - South 2
Dubai, UAE
T: +971 4 8118100

Asia Pacific
Emerson Automation Solutions
Remote Automation Solutions
1 Panda Crescent
Singapore 128461
T: +65 6777 8211

Find us in social media

Facebook/Emerson-Automation-Solutions
Remote Automation Solutions Community
@Emerson_RAS
Remote Automation Solutions

Zedi Cloud SCADA Solutions

For more information:
www.Emerson.com/ZediCloudSCADA

EMERSON