

October, 2018

Timber Line Tidbits

Report From The Road Warriors

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New Service Offerings

Managing the Data Monster!

Adding Control System Redundancy to Lingle, WY

By Eric Dodson, Programmer



While adding alarm texting from the Red Lion HMI for a town in Wyoming, the operators requested adding a layer of redundancy to the Motorola telemetry / Red lion SCADA control system. Eastern Wyoming experiences frequent severe weather events which have been known to destroy tank level transmitters. The operators had an idea to add a low-

pressure alarm and control for the tank that would be a backup to the level transmitter.

Each of the town's well houses still contained a pressure switch-based relay control panel that had been decommissioned from service. It was decided to re-purpose one control panel as redundancy for the tank level transmitter. After rewiring the control panel in parallel with the SCADA I set the pressure switches to much lower tank pressure than the SCADA control. In the event that the tank drops too low, the set-point level relay logic will maintain a water level in the tank level until the problem can be diagnosed. In this case TLECC was able to reuse existing equipment, save the customer money, and still add a layer of redundancy to a control system!

Fun Facts About the Author:

Eric moved to Colorado from Alabama about 3 years ago and has been with Timber Line for approximately 6 months. In his free time, Eric enjoys rock climbing, back packing, downhill skiing and snowboarding, and spending time with his dog Zada.

Kim's Corner



RMWEA/RMSAWWA Conference

Timber Line will be in booth #815 at the RMWEA/RMSAWWA conference at the Colorado Convention Center this September 16-19, 2018. I will be staffing the booth along with Dan Schuelke, Timber Line's incoming CEO.

If you have not met Dan yet, here is your chance to tell him how Timber Line can help your district. Click [here](#) if you'd like to send an email to congratulate Dan! We're prepared to discuss SCADA system resiliency ideas, or any other topic on your mind. We look forward to seeing you!

Two New Services Offered by Timber Line Electric & Control Corp.

Computerized SCADA Maintenance - For example:

- Full backup, verify backups (may need ShadowProtect software and drives)
- Checking for and load GE Sims
- Loading white-listed Microsoft updates
- AND MUCH MORE! (Click on the link above)

Utility District Advocate - For example:

- Listening to the Operators/Managers describe their control needs and then writing a rough draft control narrative for further edits by the District or District's engineer.
- Finding documentation for existing equipment and PLC's and red-lining/as-built prints to make them ready for consulting engineer. This can include verification of existing electrical loads.
- AND MUCH MORE! (Click on the link above)

Are you drowning in Data? Let us help you manage the data monster!



- Help consulting Engineers set up queries
- Help District Engineers find the right tags
- Set up temporary read-only computers to mine data
- Power consumption
- Well production
- Total flows
- Water quality

About Us

Timber Line Electric & Control Corporation (TLECC) was established in 1987 by Kurt Evezich and incorporated in April 1988. We provide instrumentation and control field service to over 150 municipal water and sanitation districts in 5 states, serving clients in the skiing, mining, power distribution, oil and gas, and food processing industries. We're also excited about expanding our involvement in clean and renewable technologies and other promising new industries.

Our Mission

To find opportunities to delight our peers and customers by making the complex simple.



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