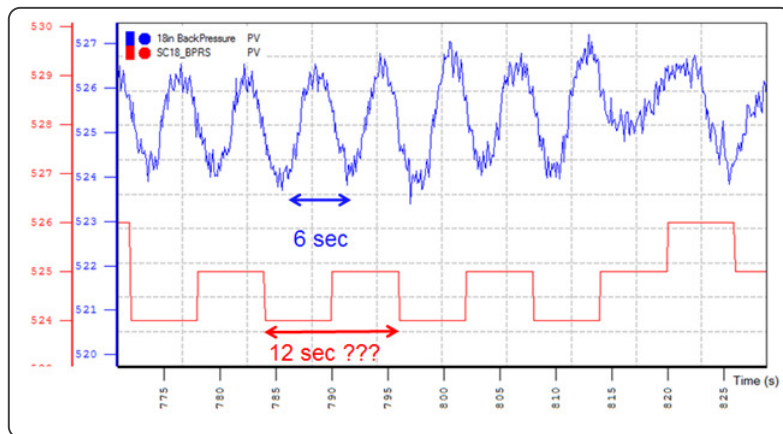


ENERO PIPELINE CONTROL PERFORMANCE SOLUTIONS

With so many control loops and events happening in real-time, sorting through pipeline data in order to set performance improvements goals or even simply addressing critical pipeline pressure variability issues can seem like a daunting task.

Pipeline Control Performance Projects

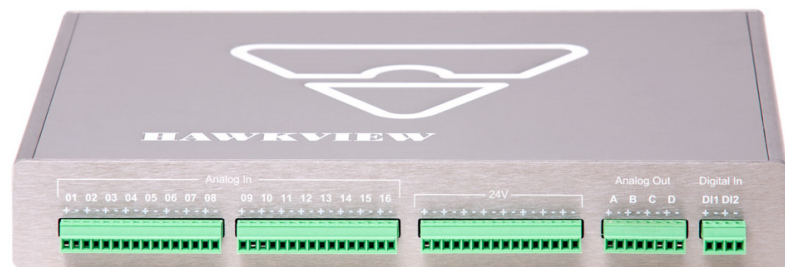
- Remote high-speed pipeline monitoring,
- Remote pipeline pressure controller tuning and troubleshooting,
- Reviewing suction override and pressure station logic,
- Dynamic testing of control valves and transmitters to assess the performance of field instrumentation,
- Integrate Enero's advanced technologies to existing pipeline integrity programs.



High Fidelity vs. Low Fidelity Pipeline Data

Control Performance Project Benefits

- Reduce pressure variations, mechanical vibrations and localized flow variations during pipeline startup though improved control decoupling between pumping stations
- Less cyclic variation on pipeline during startup and steady-state operation
- Reduction of pumping costs thanks to optimum control valve positioning during steady-state and transient operation
- Monitoring pipeline variability with Enero HawkView™ Remote High-Frequency loop monitoring system ensures maintenance and long-term performance of advanced

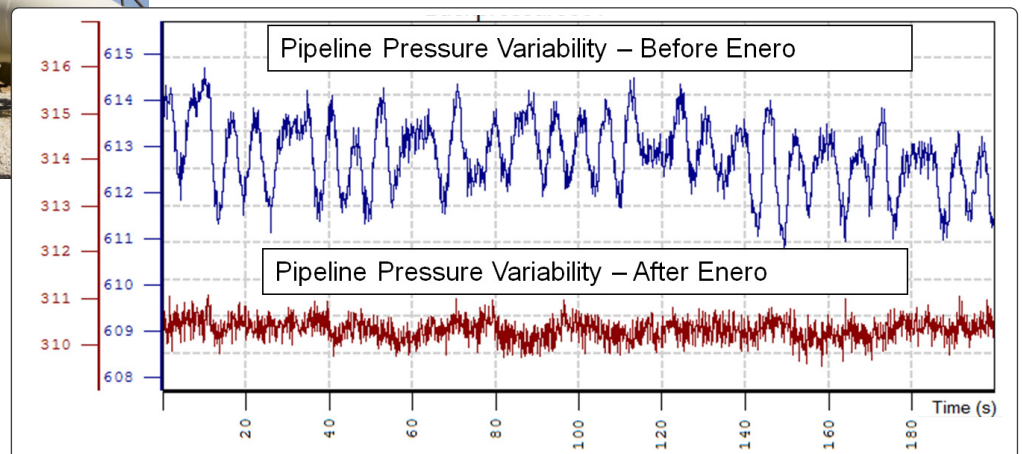


HawkView™ Remote High-Frequency

INTEGRATED ADVANCED CONTROLS SOLUTION

Enero Solutions improves the overall performance of a pipeline by working with operation personnel to develop supervisory control logic for multiple pipeline stations in a series.

- Allow coordination of station startup so that the pressurization of downstream sections are not performed at the expense of upstream sections,
- Minimize flow surges during startup process,
- Minimize mechanical vibration during startup or rapid transients,
- Allow for rapid, stable and non-oscillatory pressure and flow changes during a production flow increase.



Enero Solutions™ - Process Performance Solutions

Enero Solutions is a leading provider of advanced engineering Process & Automation Control solutions that help increase operational control and improve the profitability of Manufacturing, Oil & Gas and Utility companies through the implementation of advanced engineering technologies.

For more information contact:

Enero Solutions Inc.
sales@enerosolutions.com
T: 514-439-0941
426 Guy, Montreal, Qc, H4A-1E9



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