Hard Wired Alarms Saves PLC Upgrades

Application Sheet # 45

SITUATION

- An operator commissioned a Sirius chemical injection system in the Bakken and sought to monitor chemical flow rate and tank level through an existing SCADA system.
- The site was equipped with an older PLC which could *not* communicate through Modbus protocol.

SOLUTION

- The Sirius Fusion^2 pump controller was configured to communicate through discrete digital outputs rather than Modbus.
- This technique can also be used to trigger alarms or to start and stop the pump.

RESULTS

- The operator successfully automated their site while avoiding a costly PLC replacement.
- Data monitored through SCADA included: low flow alarm, low tank level alarm, pump run status, low battery alarm, motor current, and pump efficiency alarm.
- Real time monitoring resulted in faster response to problems and less downtime.
- The flexibility of the Fusion^2 controller is uniquely suited for digitizing older sites and implementing "Managing by Exception" operating practices.