THE CASE FOR SIRIUS

Application Sheet #52

REAL TIME BENEFIT

Reduced operational costs while increasing reliability.

SITUATION

- A major oil and gas operator in the Permian basin sought to standardize their fleet of chemical injection pumps with the goal of minimizing cost of ownership.
- The company had approximately 700 chemical injection pumps operating in the field. 70% of these were Sirius systems and 30% were typical, legacy-style pumps from a major manufacturer.

SOLUTION

- An evaluation was performed on all operating pumps using data from calendar year 2022.
- The evaluation considered upfront cost, chemical savings, pump reliability and data monitoring.

RESULTS

- The data showed that 12% of Sirius pumps required service compared to 25% of legacy-style pumps.
- The average annual service cost (per pump) for Sirius systems was 1/5th of that compared to legacy-style pumps.
- The accuracy and repeatability of the Sirius system allowed the operator to reduce chemical over-injection. Methanol consumption was reduced by 20%, and inhibiting chemicals reduced by 10 percent. See the plot to the right.
- By reducing pump failures there are additional benefits not reflected in the analyses above including, less production downtime and equipment damage due to lack of proper treatment.