



Treating For Scale

Application Sheet #54

SITUATION

- A chemical company operating in North Dakota uses a superior scale treating chemical but faced challenges in effectively delivering the chemical to the process.
- Excessive scale build up was causing up to four shutdowns on the SWD per year, costing the customer approximately \$400,000 annually.
- Due to the excessive and costly failures, the customer necessitated their staff conduct multiple daily inspections of the legacy chemical pump, resulting in escalated labor expenses.
- Wheel valves and other equipment in the process would commonly be unusable due to scale build up creating safety concerns.

SOLUTION

- The operating company installed a Sirius Injection System at the facility, with Sirius's IIOT platform "Insight Connect".
- In addition to accurate, continuous injection, the customer could now remotely change rates, and monitor tank levels.

CUSTOMER VALUE

99% Scale Reduction

- No SWD Facility Shutdowns
- Significant reduction in manpower.

RESULTS

- After using the Sirius Injection System for more than six months the customer experienced scale reduction of 99% with no failures, resulting in hundreds of thousands of dollars in savings.
- The remote capabilities of Insight connect permitted the operator to manage by exception saving thousands in manpower costs.
- Wheel valves now operate smoothly and process equipment function as intended, improving overall safety.



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