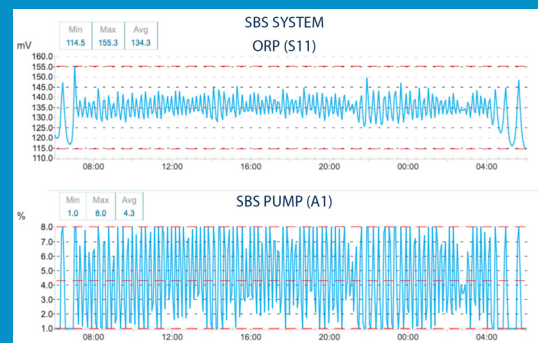


CASE STUDY



RESULTS

A compliant system that automatically responds to changes in water quality. When the city adjusted the drinking water disinfectants, the system responded with 100% compliance without an involvement from the customer – allowing them to focus on running their plant!



100% Compliance, 24/7



CHALLENGE

A manufacturing customer that relies on a chlorinated municipal water source, was required by the DNR to dechlorinate the once through, non-contact cooling water to meet their permit requirements for compliance. Adding to the challenge, semi-annually the municipality would change the type of disinfectant being used leading to inconsistent chlorine levels. These fluctuating levels added another variable to the dechlorination process.



SOLUTION

Watertech met this challenge to dechlorinate the water by combining traditional chemistry and technology to treat, monitor, acquire data and provide alarms.

Watertech worked with the customer and DNR to make sure the chemistry used for treatment was also approved for discharge; then designed a system with a controller to gather real-time data such as ORP, flowrate and total chlorine. The chemical delivery system relies on the real-time data results to automatically control the chemical feed rate to reduce ORP and total chlorine. The real-time testing/data acquisition for total chlorine (permit requirement) assures compliance at different loadings and provides a history of discharge, if needed. Alarming options in the program are used to indicate if test results are reaching discharge limits and other data points. The data provides reassurance that the system is in compliance 24/7 and helps troubleshoot any possible upsets that might occur.



More than a water treatment solution.

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