

Evaluations of ChemTreat Solutions® Automated Feed Systems at Southeast Paper Mill

A large Southeast Paper Mill was experiencing poor control with their water treatment supplier who was using pace and chemical verification instrumentation. The mill was experiencing major variances in cycle control, conductivity, P-alkalinity, and phosphate control. ChemTreat had investigated the causes of these variances and submitted their recommendations for improvement. As a result, ChemTreat was given the opportunity to turn things around.

BACKGROUND

Major variances in cycle control, conductivity, P-alkalinity, phosphate control, and overall chemical control.

PROBLEM

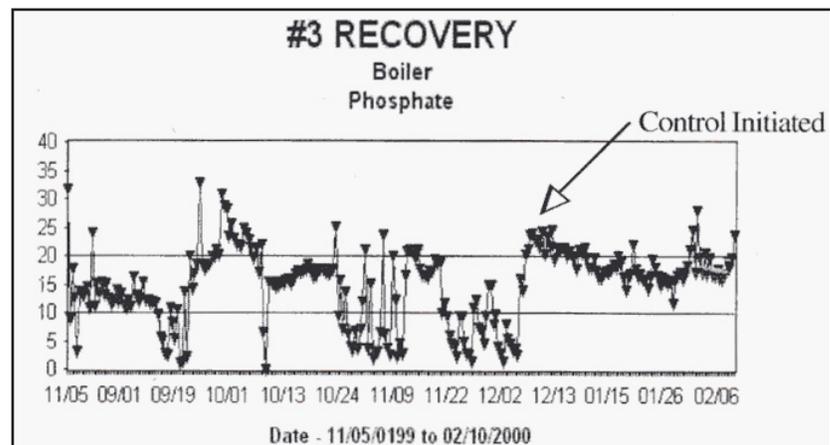
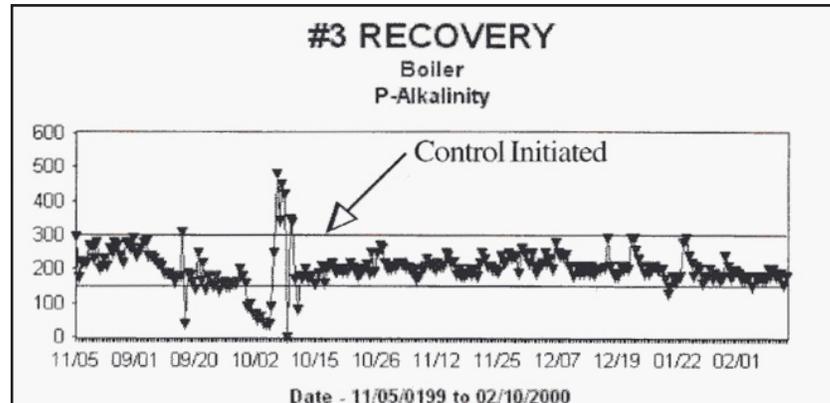
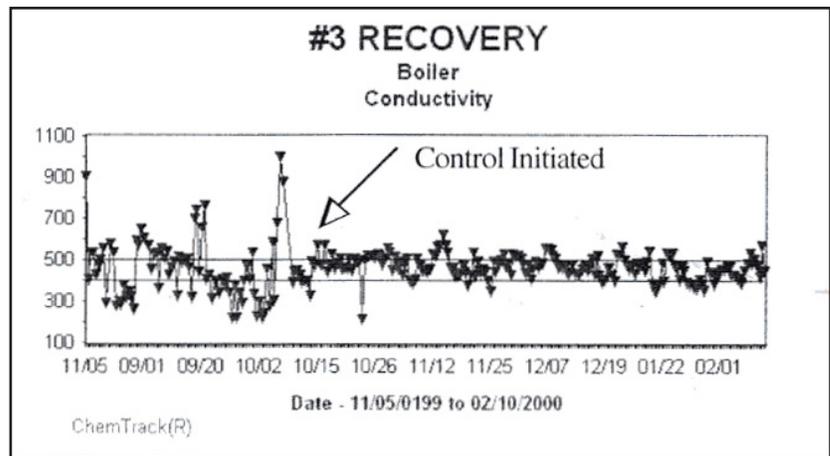
After assessing customer needs and previous program performance using ChemTrack® software, ChemTreat installed an advanced version of their ChemTreat Solutions® Control and Monitoring System which included proportional chemical feed pumps, blowdown control based on cycles, and correct chemical feed injection points. As a result, the customer is able to precisely control and monitor the chemical and blowdown of their systems at a very tight control range which had never before been seen at this facility. The neat feed of products by the ChemTreat Solutions® Control System eliminated the costly, maintenance-intensive, and inaccurate feed and control system previously used by the incumbent supplier.

The ChemTreat Solutions® System also datalogs other critical system parameters such as hardness, silica, sodium, and turbidity to fine tune system performance. Evaluation and results after installing ChemTreat Solutions® are shown in the figures to follow.



“Once ChemTreat was awarded the contract, they hit the ground running. We had an outage window where significant work had to be completed for the changeover. The work was completed ahead of schedule with very few issues. The boiler came on-line and everything worked. Since the shutdown, the tuning, optimization, and automatic operation has exceeded our expectations. We are already seeing significant return on our investment. We have just seen the tip of the iceberg. ChemTreat has identified many other opportunities which should pay off with significant savings and improvements to our operation.”

-Mill Recovery Engineer



SUMMARY

Evaluation of the ChemTreat Solutions® System was considered a major success. Plant management agreed use of the on-line system was a significant process improvement. As a result, the mill will realize improved treatment results and energy savings of at least \$96,000 per year.

Contact your local ChemTreat Rep to find out how we can help you reduce your plant's operating costs. (800) 442-8292

