

better control of chemical feed to dissolved air flotation units saves US\$67,500

challenge

Because of poor control of a manual feed system for the dissolved air flotation (DAF) units at this integrated Midwest U.S. refinery, polymer overfeed occurred frequently. Feedrates did not match DAF performance.

solution

SUEZ helped implement a more proactive approach to chemical feeding. Jar tests were performed routinely and the results compared to the actual polymer feed.

Recommendations for feedrates were entered into the refinery log to guide operators in dosing the DAF units, and a spreadsheet was created to help them determine the optimum dosage rates. Products used included KlarAid* CDP1302 coagulant and PolyFloc* AE1703 flocculant.

results

The reduction in DAF chemical treatment costs resulted in a net annual savings of US\$67,500.

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