

RECORDED BENEFITS

- Reduced optimized defoamer demand by additional 9%
- Decreased operator involvement with defoamer control
- Reduced learning curve for operator trainees
- Consistent response to changes in operating conditions

New Algorithm Helps Pulp Mill Control and Optimize High-performing Defoamer

CleanPulpSM DC1 Defoamer Control Algorithm and AdvantageTM Brownstock Defoamer

Improvement Opportunity

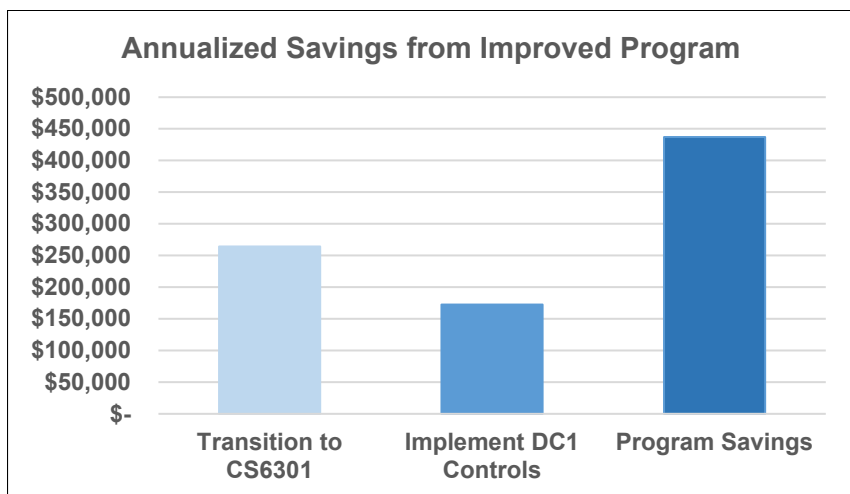
A North American pulp producer was struggling with high defoamer costs and was experiencing regular defoamer quality issues causing pumping problems and production losses.

Recommended Solution

Solenis recommended conversion to Advantage CS6301 brownstock defoamer followed by implementation of the new CleanPulp DC1 defoamer control algorithm. Advantage CS6301 is a low cost, advanced formulation, silicone emulsion defoamer that provides excellent cost performance as well as product stability. The CleanPulp DC1 algorithm reduces the need for operator oversight by monitoring real-time process KPI's and individually adjusting defoamer feed pumps based on the performance of the process.

Results Achieved

Conversion to Advantage CS6301 was smooth and resulted in an immediate cost savings of over \$250,000. All production and quality targets were maintained and production slow backs due to plugged defoamer pumps were eliminated. After installing the CleanPulp DC1 algorithm and working with operators to tune it based on the unique operating characteristics of their equipment, defoamer costs were reduced by an additional 9% with no loss in operational capability or performance.



All statements, information and data presented herein are believed to be accurate and reliable, but are not to be taken as a guarantee, an express warranty, or an implied warranty of merchantability or fitness for a particular purpose, or representation, express or implied, for which Solenis and its affiliates and subsidiaries assume legal responsibility. TMTrademark, Solenis or its subsidiaries, registered in various countries. ^{*}Trademark owned by a third party. ©2021 Solenis.