

## 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

### SmartWash Technology and Advantage™ Brownstock Defoamer

#### Improvement Opportunity

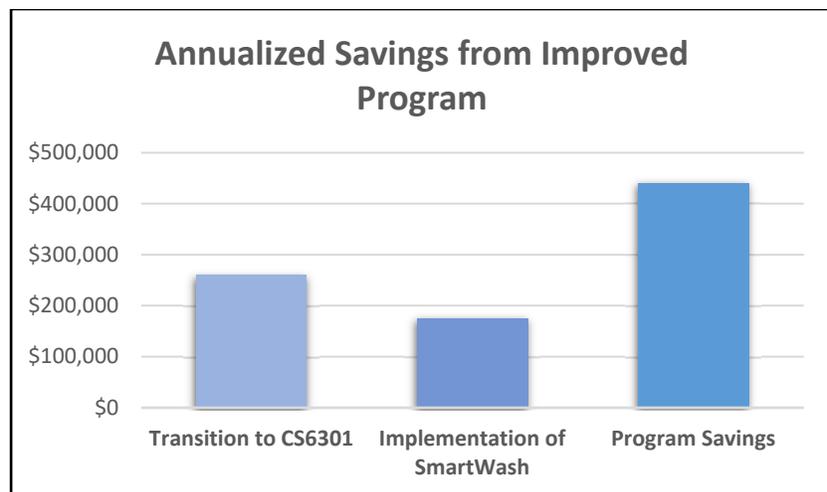
A North American pulp producer was struggling with high defoamer costs and was experiencing regular defoamer quality issues causing pumping problems and production losses.

#### Recommended Solution

Solenis recommended conversion to Advantage CS6301 brownstock defoamer followed by implementation of the new SmartWash Technology. Advantage CS6301 is a low cost, advanced formulation, silicone emulsion defoamer that provides excellent cost performance as well as product stability. The SmartWash Technology 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 SmartWash Technology 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.



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