

Link Sourcing* Chemical Management Program Saves \$115,500 In Boiler, Cooling and Wastewater Treatments

Challenge

Sara Lee Foods in Tarboro, North Carolina, needed to expand the capacity of its pretreatment facility from 75,000 (284 m³) to nearly 300,000 gpd (1,136 m³) of plant effluent. In order to retain the business and keep pace with the client's growth, GE Water & Process Technologies had to meet competitive pressures and use mechanical limitations to its advantage. It also faced environmental concerns resulting from a 500-year flood that submerged the municipal POTW under 10 feet (3 meters) of water. Sara Lee needed to cut its TSS in half during the two months while the plant's discharge was diverted to a nutrient sensitive tributary.

Solution

GE Water & Process Technologies developed a chemical management program that took advantage of its buying power to incorporate commodity products into the contract, which was flexible to allow for future plant expansion and the effects of the hurricane. To maximize the efficiency of the DAF unit, Novus* CB2690 cationic brine dispersion polymer and KlarAid* CDP1336, an ACH blend, were introduced. PolyFloc* CE1169, an emulsion flocculant, replaced a dry polymer so that the belt press could be run for extended periods with the existing equipment. Addition of the plant's boiler and cooling system to the contract supported expanded service and more favorable pricing. Other products used included Optisperse* APO500, CorTrol* 100, Steamate* NA9680 and FM60, Continuum* AEC 3136, CorrShield* NT402 and Spectrus* NX1100, NX1104 and NX110.

Result

The new products, reduction in chemical usage, and consolidated buying power saved \$102,000. Management and staffing costs were reduced by \$4,900 as a result of the emulsion flocculant and the associated contract, while the use of automated equipment saved \$8,600. During the two months that the POTW was off line, Sara Lee was able to reduce TSS levels from 80 to 100 ppm (mg/L) to less than 20 ppm (mg/L), eliminating 5,338 pounds (2,421 kg) of solid waste from the effluent. Net annual savings totaled \$115,500.



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