

Project Profile

Third Springdale AR Success

edge™ Provides Coagulant Reduction of 83% and Polymer Reduction of 20%.

APPLICATION

One submersible Edge-800-PF-4X treats 900 GPM Dissolved Air Flotation system.

THE PROCESS

Dissolved air flotation (DAF) is a water treatment process that clarifies wastewater by the removal of suspended matter such as oil, grease or solids. The removal is achieved by dissolving air in the water or wastewater under pressure and then releasing the air at atmospheric pressure in a flotation tank or basin. The released air forms tiny bubbles which adhere to the suspended matter causing the suspended matter to float to the surface of the water where it may then be removed by a skimming device.

THE PROBLEM

Polymers, and coagulant are used in significant quantities to improve effluent quality and thicken sludge. Chemical costs and sludge hauling costs are very high for poultry processing operations.

CUSTOMER PROFILE

One of the worlds largest processors of chicken, beef and pork.

TREATMENT PROCESS

Wastewater from the equalization tank flows to a tank where the Edge-800 is submerged. Wastewater then flows through a flocculator where chemicals are injected and then to the DAF Tanks.

RESULTS

Within hours of energizing the Edge it was possible to reduce coagulant dose from 65 PPM to 25 PPM. After two more months it was possible to dose coagulant at 10PPM and reduce Cationic Polymer by 20%.

- Reduced Coagulant 83%
- Reduced cationic Polymer 20%
- Reduced Anionic Polymer 3%.
- Maintained good quality effluent

SMART INVESTMENT

Unprecedented chemical reduction while maintaining excellent DAF effluent water quality has proven to provide a rapid return on investment. Corporate managers are now preparing to install the Edge at other locations.



DAF Clarifiers



Edge-800-PF-4X Installed with Tank Empty



Jar Test Confirm Less Chemical Required



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