

# PROJECT PROFILE

## FLOWERS BAKERY

### SBC ELECTRONIC WATER TREATMENT SYSTEM WITH FILTRATION

#### APPLICATION

Scale, Bacteria and Bio-Film Control for Five Evapco Condensers

#### CUSTOMER STATEMENT

"The Griswold system is working great. We no longer use softened water or any chemicals in our towers. Our system head pressure has dropped which indicates the tubes are cleaner. Under our old treatment program I had to run pumps and fans flat out between April & October to achieve adequate cooling. But with 85° F temperatures in May, the head pressures of my chillers are now running at levels equal to those found in December with air temps at 60 – 70° F. The reduction in head pressure is due to old scale removal and the absence of slime formed by the flower and yeast fouling. Additionally, the number of system cleanings has been reduced dramatically."

- David Frame,  
Chief Engineer

#### CUSTOMER PROFILE

FlowersFoods (NYSE:FLO), headquartered in Thomasville, Ga., is a leading producer and marketer of packaged bakery foods in the United States. The company operates 38 highly efficient bakeries producing breads, buns, rolls, snack cakes, and pastries which are distributed fresh to foodservice and retail customers in the Southeastern, Southwestern, and mid-Atlantic states. Flowers Foods also makes and sells frozen products to national foodservice and retail customers.

#### PROBLEMS

- Flour & Yeast contamination leading to high bacteria counts
- Refrigerant tubes badly scaled reducing system efficiency
- Corrosion from softened water Labor intensive cleanings

#### SOLUTION

One 50 GPM Tower Sentry  
One 200 GPM Tower Sentry  
Five Sump Sweeper Systems  
Eliminate Softener  
Remote Wireless TSM Monitor  
Griswold Service Contract

#### THE STORY + THE RESULTS

Flowers Bakery in Jacksonville, FL has five Evapco Evaporative Condensers originally under conventional chemical treatment. Calcium scaling of the refrigerant tubes was so extensive that a water softener was added for scale control. Unfortunately, the softened water promoted system corrosion. The heat exhausted from the building, containing flour and yeast, collected in the towers forming a glue-like deposit on all surfaces and led to uncontrollable biological contamination. GWS installed a 50 GPM and 200 GPM Tower Sentry system which filters and electronically treats the water. Soft water and chemical treatments were eliminated. Water quality quickly improved and old scale began to fall off. Manual cleaning of the towers has been reduced.

#### BEFORE



Flour & Yeast make glue in condenser. Bacteria count exceeds 1,000,000 CFU/ml



Griswold treatment cleaned the system and reduced bacteria to less than 1,000 CFU/ml

#### BEFORE



#### AFTER



Make-Up Valve De-Scales in 3 weeks

#### PROPOSALS & ENGINEERING

1597 INDUSTRIAL DRIVE, NEW SMYRNA BEACH, FL 32168 | T: 386.663.3370 F: 386.663.3371

#### CUSTOMER SERVICE & MANUFACTURING

1525 EAST 6TH STREET, CORONA, CA 92879 | T: 951.278.8992 F: 951.735.0798



GRISWOLD WATER SYSTEMS

WWW.GRISWOLDWATERSYSTEMS.COM