

# Going Green with Solid Chemistry

## CLIENT PROFILE

An aquarium attraction with 200,000 square feet of space and more than 2 million gallons of water. Dedicated to environmental conservation and education, the aquarium is open 365 days per year and features numerous interactive sea life experiences.

## OPERATIONAL CHALLENGE

The goal of the project was to reduce the amount of liquid chemicals used to treat the aquarium's cooling towers and closed chilled water loops. The facility was using a traditional liquid approach to treat for corrosion, scale and microbiological control. Industrial-strength bleach and other liquid chemicals were supplied in chemical drums, which posed numerous challenges: moving heavy drums; excess on-site inventory; direct handling of chemistry by aquarium workers or vendors; risk of spillage; and potential leakage through chemical feed equipment.

## CHEMICAL SOLUTION

Kroff Chemical Company, Inc. partnered with a top provider of facilities management teams, controls and services for heating, ventilating, air-conditioning, and refrigeration systems to eliminate liquid chemistry and implement a solid chemistry approach. Through mounted wall dispensers, a 30-gallon drum of liquid is replaced by a pint of solid, powdered chemistry. Aquarium personnel no longer transport large containers and handle liquid chemicals. Also, facilities are no longer used for storage of liquid chemicals, improving overall cleanliness and eliminating the risk of spillage and leakage.

## BOTTOM-LINE RESULTS

As a direct result of Kroff's chemical treatment program, the aquarium has improved aesthetic value, facility safety and environmental impact; reduced online corrosion and scale formation; and implemented advanced technology for microbiological population management.



Before



After



*Kroff Chemical Company, Inc. provides custom-blended chemicals and specialty services that improve clients' critical water and process system performance, which helps maximize efficiency of operations and lower costs of operation.*

*Kroff Chemical's services focus on energy efficiency, regulatory compliance, waste minimization and water reuse, fully automated and integrated chemical applications, and a safety-conscious approach.*

*With the support of Kroff Chemical Company, Inc., facilities operate with less staff, but they operate safely, efficiently and profitably. Clients focus more on their core competencies and look to Kroff Chemical Company, Inc. to treat, operate and maintain their critical water and process systems.*