



Corporate Office Building Case History

Situation

A World Wide Manufacturer of Heavy Duty Power Equipment with their Corporate Office in the Midwest has a stated commitment to reducing water usage and saving energy. Their commitment to Sustainability pushed them to look for alternatives to their chemical water treatment program. They wanted to start with their Corporate Office Building and then if successful, roll the new technology out to their manufacturing facilities. The Corporate Office has a 900 ton system which has approximately 3,000 gallons of water.

Solution

WCTI and the local Distributor designed a system that could be used on their existing cooling tower system.



Chemical Treatment

Results

- WCTI program is saving the Client 4.6 million gallons of water per year versus the previous chemical treatment program, which is an annual cost savings of \$27,400.
- ROI on the new system was 6 months to cover the cost of the WCTI equipment and installation.
- Coupon corrosion rates for mild steel have been 0.01 MPY
- Coupon corrosion rates for copper have been 0.086 MPY (2011) and 0.025 MPY (2012)
- Coupon corrosion rates for aluminum have been 0.38 MPY
- Eliminated all blowdown out of the cooling towers



WCTI Treatment

Future

A second system has been installed at one of their main manufacturing locations:

- 4000 ton system
- Projected annual water savings of 6.8 million gallons
- \$35,000 projected annual cost savings with WCTI
- 12 month ROI on installation of the new system

