

HYDROLATOR'S ELECTRIC WATER TREATMENT PROVES SUCCESSFUL AT DB WILSON PLANT, KY

UPDATE - 10/24/02 - WKE WILSON PLANT CONDENSER WAS JUST OPENED THIS PAST WEEK. THE CLEANING VENDOR BRUSHED 8 TUBES: NO RESIDUE. THEY SENT THE SCRAPER THROUGH: NO SCALE. MANAGEMENT INSPECTED AND "WERE IMPRESSED."

(Please note: In the past, before Hydrolator was installed, on two occasions, this plant suffered from severe condenser scaling. The cause: failure of chemical water treatment to control fouling! Plant management can rest easy now - no more concerns about lost production for the life of the plant!)

We thought you'd be interested in the following excerpts from an article run in a recent WKE corporate newsletter. The parentheses are for HYDROLATOR's identification and/or clarification.

"Sometimes there are better ways of doing things and Bob Davis, Mechanical Engineer at Western Kentucky Energy's Wilson Plant, was determined to find a more cost effective way to reduce the chemicals used in the cooling tower at the Wilson Plant. (eliminates). At least once a year, the condenser must be inspected and cleaned as necessary. Until recently, the annual cleaning involved the shooting of tube cleaning devices by a qualified vendor through each of the 30,912 tubes to clean Wilson's condenser.

"Davis heard about the use of magnetic water treatment to reduce scale and algae buildup in small cooling towers and began to research the subject. After searching the Internet and various publications, and making a visit to Santee Cooper's Winyah Station in South Carolina, he found that the (HYDROLATOR System installed there) was cleaning up the system.

Davis Reports: "A HYDROLATOR System was installed in (at Wilson) April 2001 and we began to see a difference in the cooling tower over the summer months. The tower had a cleaner appearance and its basin water was clearer," said Davis. Inspection of the condenser tubes by our production manager, the chemical vendor's field representative and myself revealed during the April 2002 outage that the tubes were as clean as they were after vendor cleaning a year ago. (Wilson's cooling tower is a circulating water system consisting of nine cooling cells).

"The HYDROLATOR System has the potential to save the company up to \$109,000 per year. With the HYDROLATOR installation, the plant's condenser tubes have not needed cleaning, thus creating a substantial cost savings of \$26,000 for WKE. Cooling tower chemical savings are expected to be between \$17,000 and \$35,000 per year. Another benefit is, with little or no condenser tube scale formation for over a year, the condenser back-pressure should not increase, resulting in a lower heat rate. Being conservative, this heat rate reduction could save another \$48,000 per year."

If you need more information call Ted or Bryan at (410) 352-5524 or Bob Davis at (270) 844-5008.