



January 4, 2010

Subject: Engeenuity Technology Testing

My position at the Chevron Research Center of Kingwood, Texas was facility manager during the testing of the Engeenuity technology. We have 4 office and research buildings located on our campus and a central cooling water system provides cooling for the various chiller and refrigeration machines throughout the facility. The testing of the Engeenuity technology took place on this main cooling tower and spanned approximately 3 months. The testing was planned and supervised by Hydraplan who is the testing and marketing arm of Engeenuity for water treatment applications.

Baseline data was collected prior to the introduction of the technology to establish specific measurements of the system so the affects of the technology could be measured. Continuous measurement and data logging of pH, conductivity, Oxidation Reduction Potential, free chlorine and corrosion of two metals (mild steel and copper) was completed for the duration of the evaluation.

The system is treated with a slug feed of 0.5 gallons of sodium hypochlorite each night at 11:00 pm and a dose of non-oxidizing biocide one per week. During the test, total aerobic bacteria tests were collected daily. The treatment of the system was not changed.

The observations made after the Engeenuity devices were installed indicated an enhanced performance of the oxidizing and non-oxidizing biocide in the system. The corresponding microbiological levels were lower and the free chlorine residuals obtained after treatment with the Engeenuity technology were higher.

Our conclusions were that the amount of chlorine being added in conjunction with the use of the Engeenuity technology could be reduced. This would also result in a decrease in the copper corrosion which increased significantly when the chlorine was slugged to the system. The Engeenuity technology can reduce the amount of chlorine required and result in lower copper corrosion and longer chiller life.

This technology is a major breakthrough in non-chemical water treatment. Engeenuity and the inventor of this technology, Victor deFranco Levi, will play a key role in the future of water treatment and it was a pleasure participating in some small way in the confirmation of the efficacy of the technology.

Sincerely,

A handwritten signature in black ink that reads "J. W. Wilson".

J. W. Wilson
Facility Manager
Chevron Kingwood, Tx.