

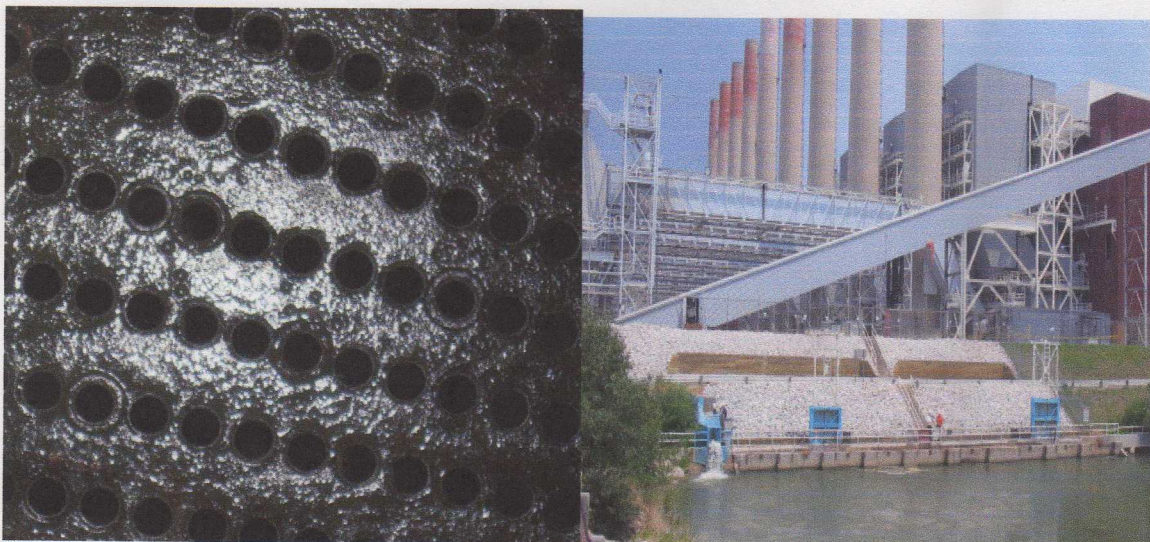


EPRI 2009 Winter Environmental Council Meeting
Session Announcement: Mexel Evaluation for Biofouling Control
at TVA Kingston Plant, Dennis Yankee, TVA
Wednesday, March 17, San Diego, CA

Abstract: A six month field test of the Mexel 432/0 cooling water treatment in the condenser cooling water system was conducted at TVA's Kingston Fossil Plant. The success of Mexel in preventing fouling by comparing identical unit cooling water circuits, one treated and one untreated, is presented. More specifically, the mechanisms for improved condenser efficiency and the need for less frequent condenser cleanings are demonstrated. Condenser performance was quantitatively evaluated using metrics that include temperature gradient and vacuum degradation (i.e. apparent cleanliness factor), corrosion rates, and biofouling rates. Significant improvement in unit efficiency, reduction of production costs, and reduced environmental impacts were documented for the treated unit.

Presentation will include discussion of

- Significant Improvements in electric production efficiency – quantitative MW benefits
- Proportional improvements in air emissions due to efficiency gains
- Reductions in metal concentrations in effluents, corrosion control
- Immediate annual financial returns exceeding cost of treatment



For more information contact Mary Glass at mglass@mexelusa.com.

1655 N. Ft. Myer Drive, #350, Arlington, VA 22209 703-349-3347, Fax 703-528-9069