3480. Condensate Polishing Guidelines

In a continuing effort to minimize the impact of impurity ingress on power plant availability, these guidelines will help utilities enhance condensate polisher performance. They will also provide operators with the proper tools to solve contaminant problems and lead to significant operation and maintenance cost reductions. These guidelines contain separate sections on the principles of condensate polishing, water chemistry impacts and requirements for fossil and nuclear plants, economic justification and cost savings of condensate polishing systems, which is generally based on fossil plant experience, and condensate polishing guidelines. The guidelines section compiles information on design, operation, maintenance, resins, and management aspects of condensate polishing systems. This information is applicable to both fossil and nuclear plants, and the information from the previous nuclear guidelines is included.

These condensate polishing guidelines, when used in conjunction with the EPRI fossil and nuclear plant cycle chemistry guidelines, will help minimize the impact of impurity ingress and corrosion product transport. The guidelines apply to a wide variety of plant situations: new and existing plants, powdered resin systems and deep beds.

Appendixes are also provided on the survey results and experience, European practices, economic factors, resin analysis and maintenance, and off-site regeneration.

For more information see: EPRI TR-104422, Final Report, September 1996, 296 pages.