

N3428. EVALUATION OF ALTERNATE FILTER ELEMENTS FOR CONDENSATE POLISHING APPLICATIONS AT CATAWBA NUCLEAR STATION

Control of feedwater iron levels is essential in PWR systems. The recent revision of the PWR Water Chemistry Guidelines (EPRI TR-102134-R4) recommends operating PWRs with less than three ppb iron in the final feedwater. Filtration of iron by condensate polishing systems is an important part of utilities strategies for achieving this goal. The use of precoat free filter demineralizers offers both improved filtration and reduced waste volumes and, therefore, lower O&M costs. Utilities need to evaluate the cost/benefit of retrofitting the precoat free pleated filters into existing filter demineralizer systems. The outcome of that evaluation will depend on site-specific factors, including the existing backwash protocols and feedwater iron levels.

For more information contact EPRI Project Manager, P. Millett, Nuclear Power Group or see EPRI Report TR-107648, Final Report, December 1996, 64 pages.