

N3426. CYCLE CHEMISTRY IMPROVEMENT PROGRAM

Boiler tube failures and turbine problems influenced by cycle chemistry are generally understood. A CCIP helps utilities develop in-house management programs to avoid initial and repeat failures. Part of this process is to ensure that the optimum boiler water and feedwater chemistry is selected for each unit; during this project, 18 units were converted from all-volatile treatment to oxygenated treatment, and 28 drum boilers were converted from congruent phosphate treatment to equilibrium phosphate treatment. A new guideline (EPRI Report TR-105040) provides detailed procedures and road maps for optimization.

A combined CCIP and Boiler Tube Failure Reduction program is currently being developed by EPRI; this will be available for demonstration by utilities in 1997.

For more information contact EPRI Project Manager, R. B. Dooley, Fossil Steam Boiler O&M Cost Reduction Generation Group or see EPRI Report TR-106371, Final Report, April 1997, 238 pages.