

Value Delivered

- ✓ Reduced operator burden and lower costs
- ✓ Improved performance
- ✓ Lower particulate transport
- ✓ Technical rigor applied to BWR chemistry and operations programs
- ✓ Optimize materials, loading, elements, costs, procedures, operation, and maintenance.

Industry Challenge

Proper condensate polisher operation is necessary to produce high-purity reactor water and protecting plant assets. Polishers remove both ionic and particulate contaminants, including radionuclides. Successful operation of the polisher system minimizes: particulate deposition, accumulation and settling, radiation fields throughout the cycle, collective radiation exposure, radwaste volumes associated with condensate polisher and reactor water cleanup systems.

Condensate polisher and prefilter operation can be costly. Resin degradation and replacement, precoat materials and disposal, filter septa and prefilter element replacement, and associated personnel resource costs and dose can comprise a large portion of a Chemistry department operation and maintenance cost in a fuel cycle.

ChemStaff Solution

ChemStaff experts review plant operational data, resin/precoat materials selection and costs, resin replacement schedules, resin and filter media type, system material condition, operations and chemistry resource scheduling, condenser integrity and a associated preventive maintenance programs, and chemistry trends to identify cost-effective performance improvements.

ChemStaff will review:

- ✓ cost
- ✓ operation
- ✓ specifications
- ✓ loading strategy
- ✓ performance
- ✓ filter elements
- ✓ monitoring program
- ✓ material condition
- ✓ maintenance history
- ✓ filter demineralizer media
- ✓ deep bed polisher resin type

Assisting to optimize materials, loading, elements, costs, procedures, operation, and maintenance will reduce operator burden and improve plant performance.