

Value Delivered

- ✓ Optimized system performance with minimized costs
- ✓ Reduced system outages, maintenance backlogs, and legacy waste disposal
- ✓ Cleanup projects performed on aggressive timelines at optimized cost
- ✓ Reduced O&M and/or capital costs
- ✓ Improved system reliability and reduced radioactive effluents
- ✓ Expertise in evaporation processes and membrane systems
- ✓ Troubleshooting, process improvements

Industry Challenge

Plant radwaste systems are integral for processing and purifying waste streams, particularly for zero liquid discharge operation. Liquid, and solid radwaste must be processed in a timely manner such that plant operations can proceed without interruption. Water purity must meet stringent requirements for recycling or release. Radwaste is a complex system, containing multiple steps and processes required to produce purified waste streams. Aging equipment, backlogged preventative and corrective maintenance, and under-performing cleanup processes increase the risk of a radwaste-related outage, increase operator burden, and increase system operating costs.

ChemStaff Solution

ChemStaff provides a holistic evaluation of the radwaste system. ChemStaff's team of experienced operators, chemists, and maintenance personnel provide insights to ensure that radwaste processes and components run satisfactorily with minimized operator burden and costs. ChemStaff's radwaste experts can assist plant engineering and chemistry in working through widespread maintenance requirements. ChemStaff provides on-site support to walkdown the radwaste systems, conduct interviews with key stakeholders, and to identify major backlogs, legacy waste disposal needs, and cleanup projects. Cost-benefit analyses are performed on large maintenance backlogs to evaluate whether component repair or replacement is the most effective resolution.

