

## Value Delivered

- ✓ Deferral of costly maintenance such as sludge lancing & chemical clean-ing
- ✓ Cost-effective strategies to reduce the harmful effects of corrosion & corrosion product transport
- ✓ Elimination of startup holds & improvement of CEI performance for plants affected by startup iron
- ✓ Documented business cases for project review & approval
- ✓ Extensive experience evaluating & implementing changes to chemicals at nuclear power plants
- ✓ Comprehensive support & real-time monitoring & timely qualification & implementation

## Industry Challenge

During startup, PWR secondary system corrosion and corrosion product transport to steam generators often result in loss of heat transfer efficiency, reduced component service life, startup chemistry holds, and CEI impacts. PWR equipment layup strategies designed to reduce corrosion are vital, yet traditional strategies are cumbersome and seldom implemented effectively during refueling outages. A proven technology for effectively reducing mild-steel corrosion rates and iron transport is film-forming metal passivation. Filming amines can reduce mild-steel corrosion rates and startup iron transport.

## ChemStaff Solution

At ChemStaff, we can meet this challenge with our extensive experience qualifying and implementing innovative secondary chemistry control strategies in the nuclear power industry. Our trusted experts, highly trained and thoroughly knowledgeable, work diligently with utility personnel to:

- ✓ Complete plant-specific material qualification
- ✓ Predict plant response to filming amines
- ✓ Accomplish change-management evaluations (including 50.59 inputs, control room habitability evaluation, and more)
- ✓ Develop a detailed application plan
- ✓ Create industry best practice procedures for filming amine application

ChemStaff delivers the needed comprehensive support for all aspects from qualification through application along with real-time monitoring of plant response, including automated reports for key parameters, increasing both certainty and efficiency.

