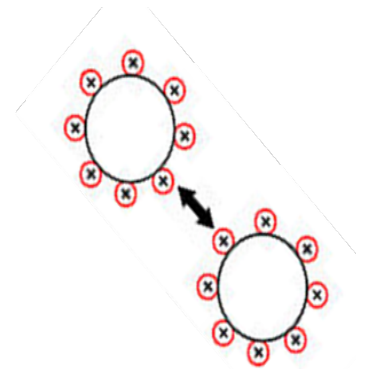


### Value Delivered

- ✓ Reduced fouling rates
- ✓ Improved thermal performance
- ✓ Deferral of costly maintenance such as chemical cleaning
- ✓ Reduced or eliminated startup iron holds
- ✓ Minimized fuel cost
- ✓ Successful dispersant applications ensured by expert hands-on support
- ✓ Maximized efficiency & improved performance

### Industry Challenge

Corrosion product deposits cause heat transfer efficiency to decline and boiler tubes to fail, requiring costly and hazardous maintenance to prevent significantly increased fuel usage and costs. However, a high-purity dispersant injected into the feedwater can reduce the rate of corrosion product deposition on heat transfer surfaces, reducing tube failure rates and deferring boiler cleanings



### ChemStaff Solution

ChemStaff can meet this challenge. ChemStaff's trusted experts are leading the industry in effective implementation of dispersants at power plants. Even named on various patents, ChemStaff principals have pioneered development of dispersant technology for applications during shutdown, startup, and power operations. Our experienced specialists expertly deliver:

- ✓ Project management,
- ✓ Application plans,
- ✓ Material compatibility review,
- ✓ Procedure development,
- ✓ Technical support,
- ✓ Real-time remote monitoring, and
- ✓ Automated reports.

ChemStaff provides solutions including:

- ✓ Online PAA injection – Improves thermal performance and reduces the iron accumulation rate in boilers or HRSGs.
- ✓ Condensate flush dispersant – Suspends particulate iron and increases the effectiveness of condensate polishers or feed and bleed for iron removal.
- ✓ Boiler/HRSG layup – Promotes increased iron removal compared to traditional layup methods.

