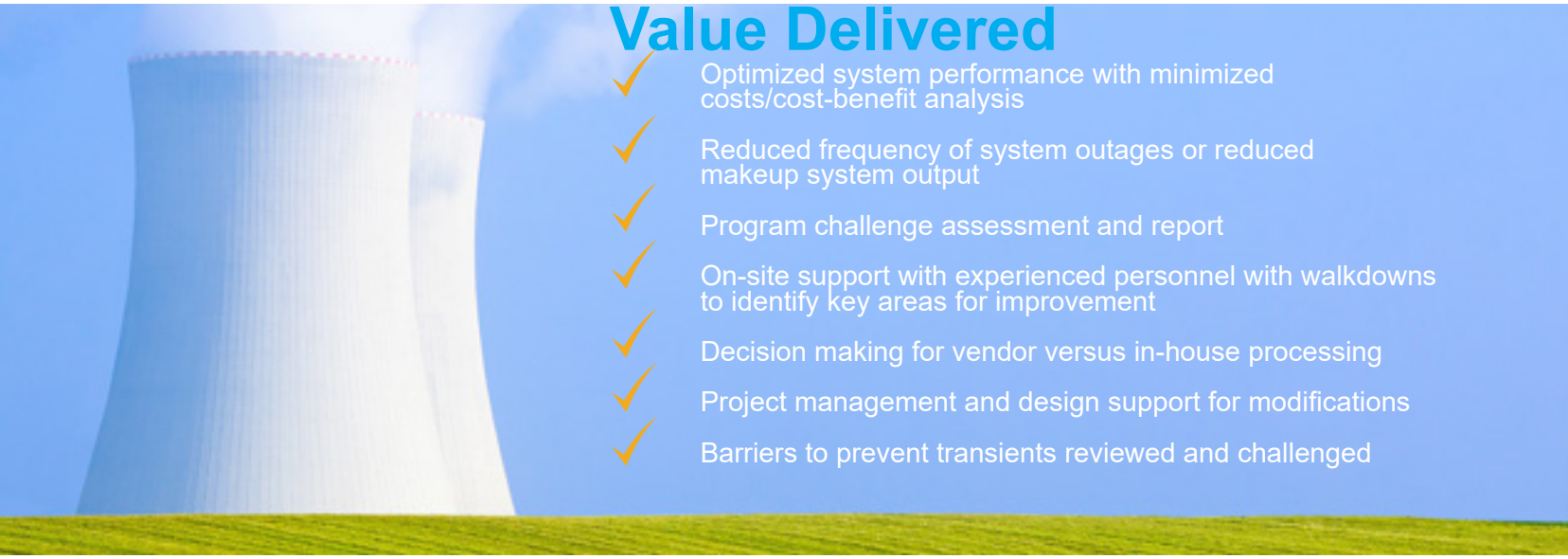
MAKEUP WATER SYSTEM OPTIMIZATION

ChemStaff
Expert Consulting for the Global Power Industry



Value Delivered

- Optimized system performance with minimized costs/cost-benefit analysis
- Reduced frequency of system outages or reduced makeup system output
- Program challenge assessment and report
- On-site support with experienced personnel with walkdowns to identify key areas for improvement
- Decision making for vendor versus in-house processing
- Project management and design support for modifications
- Barriers to prevent transients reviewed and challenged

Industry Challenge

The plant makeup water system is required to provide a continuous source of ultra-pure water for plant systems and the laboratory. Makeup water system transients have caused major industry events, including significant chemistry problems and unit outages. Producing makeup water of sufficient quality can be challenged by aging equipment, increasingly stringent environmental requirements, and cost reductions. Optimizing the makeup water system can ensure that ultra-pure water is available at the necessary supply and chemistry requirements while minimizing costs and operator burden.

ChemStaff Solution

ChemStaff provides a holistic makeup water system evaluation. ChemStaff's team of experienced operators, chemists, and maintenance personnel provide insights to ensure that makeup water systems run satisfactorily with minimized costs, and that proper physical and organizational barriers are in place to ensure that makeup water system transients do not spread to other plant systems. ChemStaff provides on-site support to walkdown the makeup water system, collect data and information, and conduct interviews with key stakeholders.

A cost-benefit analysis is performed to evaluate whether continued maintenance of the current makeup water system is preferred over utilizing a vendor or "black box" approach to producing makeup water, or to ensure that the current vendor approach is cost-optimized. ChemStaff will provide a summary report, highlighting key areas for improvement and recommendations for actions to prevent transients, minimize cost, and improve performance.