



POWER GENERATION

Municipal Utility Saves \$500,000 in Equipment Replacement Cost with Garratt-Callahan Formula 1014-L for Corrosion Control

Problem

A municipal utility in the Midwest was looking at a half-million-dollar repair bill at its electric production facility. Due to neglect of the plant's closed system water treatment, severe corrosion threatened to ruin the facility's piston jacket liners. Because of the corrosion bi-products binding to the cast iron liners, maintenance personnel needed 100-ton jacks just to remove the liners for service. If the corrosion continued, it was likely that some 50 liners would have to be replaced – at a cost of more than \$10,000 each.

Solution

The plant supervisor consulted Garratt-Callahan engineers, who implemented a customized program for treating the jacket cooling water. The key to the program was Garratt-Callahan Formula 1014-L, because its ability to disperse iron corrosion products makes it an ideal closed system cleaner. The engineers rigorously tested dosage rates, monitored operating conditions, and trained the plant maintenance staff in administration of the Garratt-Callahan program.

Results

As planned, treatment with Formula 1014-L not only removed the deposits from the jacket liners, but also passivated the liners for corrosion protection. In addition to avoiding a \$500,000 equipment replacement bill, the utility's production facility cut maintenance costs by 30 to 40 percent by eliminating the man-hours required to remove the liners and clean and repair corroded parts.

Conclusion

With a century of experience, more than 400 water treatment products, and a customer-first, can-do spirit, Garratt-Callahan delivers cost-effective solutions that extend the useful life of capital equipment and reduce labor cost.

Garratt-Callahan: The water treatment solutions you need, the customer service you deserve.