Cooling Water Management

INTEGRATED SOLUTIONS
FOR COOLING WATER
MANAGEMENT

BioChem
WATER

FOR A CLEANER, MORE EFFICIENT COOLING WATER SYSTEM, TURN TO OUR TEAM

LET THE EXPERTS keep your cooling water system operating on the leading edge of quality, safety, efficiency, and sustainability by implementing a program of best practices. Experienced, highly trained Water Specialists will deliver the proven solutions you need to:

- Implement total water management (TWM) in your cooling water systems.
- Continuously and measurably improve operational efficiency.
- Achieve your sustainability goals by helping to reduce water and energy consumption.

INTEGRATED WATER MANAGEMENT INCREASES EQUIPMENT LIFE AND OPERATIONAL EFFICIENCY

When operating a cooling water system, equipment life and operating efficiency are top priorities. Our program provides system cleanliness and ongoing protection through the optimal use of inhibitors and biocides. A complete program of automation, monitoring, and control results in efficient operation with energy and water savings.

SERVICE - On-site experts pinpoint and help solve inefficiencies, and highlight potential operational problems due to poor cooling water management.

TECHNOLOGY - Optimize cooling water management with the use of advanced scale and corrosion inhibitors, descalers, and biocides paired with monitoring and control equipment.

TRAINING - Improve operations and efficiency through a program of on going operator training in total water management.

4 KEY ELEMENTS FOR SUCCESS

PRE-OPERATIONAL CLEANING

Efficient cooling water system operation begins with the absence or removal of deposits, scale, and biological fouling.

Our innovative approach:

- Removes mill scale, oils, and metal oxides containing deposits from new cooling system equipment and piping.
- Restores efficiency by enabling removal of fouling, sludge deposits, biological matter, and insulating scale build up.
- Prepares metal surfaces for rapid, complete passivation, protecting valuable assets and extending cooling system equipment life expectancy.
- Disinfects cooling water system during startup and inhibits biological fouling.

MICROBIOLOGICAL ABATEMENT

Proper application of biocides is essential for efficient operation of cooling water systems. Biological growth in cooling water systems reduces heat transfer and increases risks associated with disease-causing microorganisms.

Our biocide programs:

- Are tailored to the individual cooling system, operating parameters, and your operational goals.
- Deliver results with a variety of available technologies and techniques including oxidizing, non-oxidizing, and biodispersant products.
- Reduce deposition and biological fouling, which keeps surfaces clean for efficient heat transfer.
- Conform to recognized best practices and procedures.

INHIBITOR PROGRAM

Effective cooling water management programs use inhibitor products to help maintain clean, scale free surfaces and prevent corrosion.

Our inhibitor products:

- Are selected based on your specific cooling system conditions, operating parameters, and water quality.
- Inhibit scale formation, ensuring efficient operation.
- Prevent corrosion and extend equipment life through effective metal passivation .
- Help save water by allowing higher cycles of concentration.
- Achieve synergy with biocide program by dispersing organic material.

MONITOR AND CONTROL

Our proactive approach:

- Ensures proper schedules and testing to drive desired results.
- Can include certified laboratory analysis for microbiological contamination/organism identification, and *Legionella* testing.
- Offers Continuous Improvement Audits (CIA) to ensure efficient operation.

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