



**JAMESTOWN TECHNOLOGIES**  
WATER RESOURCE SPECIALISTS

# Supplemental Cleaning and Maintenance Services

**COOLING AND BOILER WATER SYSTEMS**



*Servicing commercial and institutional buildings, hospital complexes, light and heavy industrial facilities, and power generation plants.*

*Jamestown now offers a complete line of supplemental cleaning and maintenance programs for cooling and boiler water systems. We can help keep your equipment operating at peak efficiency levels throughout its entire expected service life, saving you money in terms of utility expenses and replacement costs. These supplemental programs also free your staff to work on more routine projects, and provide you with increased facility safety as well as reduced labor costs.*

**Ancillary cleaning and maintenance services now offered by Jamestown Technologies:**

## **High Pressure Washing:**

Major cooling tower manufacturers such as EVAPCO and BAC recommend that cooling tower structures and basins be manually cleaned at least several times per year to remove accumulated dirt and debris. Jamestown has recently partnered with TMC Environmental to provide high pressure washing services of cooling towers and boiler internals. The service is conducted by highly-trained and experienced personnel, working under important OSHA personal protection and confined space guidelines.

## **Chemical Descaling of Heat Exchangers:**

Periodically, critical cooling system heat exchangers or boiler tubes become excessively scaled with hardness scale or iron oxide deposits, leading to poor performance and higher utility charges. Using Jamestown's innovative FOUL-OUT descaler, we can now clean this equipment quickly and safely, and with no on-site generated waste. In some situations, using a combination of proprietary treatment programs and mechanical filtration, we may be able to clean your equipment on-line, allowing your facility to stay in operation.



## **Microbiological Remediation:**

Sometimes water handling systems such as cooling towers, decorative fountains, and potable water systems become excessively fouled with microbiological contaminants such as algae or bacteria, including slime-forming, iron-related, sulfate-reducing, and most importantly, *Legionella pneumophila*, the causative agent of Legionnaire's Disease. Using a variety of EPA-approved oxidative microbicides such as chlorine dioxide or sodium hypochlorite, and associated biofilm dispersants, Jamestown can quickly bring your system back into industry recommended control limits. Once the remediation is completed, samples are sent to an independent laboratory and a written report is provided. In addition, at critical facilities such as hospitals or commercial and institutional buildings, Jamestown can schedule to microbiologically clean your system on a routine basis, beyond your standard control program, to help keep your cooling water system within increasingly strict control limits.



## **Legionella Pneumophila Monitoring and Control:**

Upcoming new standards issued by the ASHRAE and CTI will require property owners to more closely monitor and control populations of *Legionella pneumophila* in on-site water handling systems such as fountains and spas, potable water systems, and cooling towers. Jamestown can provide routine testing of your water systems by independent laboratories, and respond to and take corrective actions if populations are above recommended guidelines.



### ***Off-Season Dry-Layup Programs:***

In many situations, cooling and boiler water equipment suffers structural damage because it was improperly stored during the off-season. In particular, systems that are stored wet provide a perfect environment for excessive corrosion. To avoid this, Jamestown now offers a complete line of our Cortex vapor-phase, dry-layup products. Simply add the vapor-phase corrosion inhibitor products to your system just before removing the equipment from service, and your metal surfaces will be protected by a strong and durable coating during storage. At start-up, just flush the system with fresh water to remove the protective film.

### ***Seasonal Start-Up and Shut-Down Cleaning Programs:***

After a long season in operation, many systems accumulate excessive quantities of dirt, scale, rust, and microbiological deposits. If not properly cleaned before storage, these deposits can result in severe underdeposit, pitting, and chip scale corrosion. Jamestown can perform a comprehensive cleaning program consisting of our CSC-100 general dispersant, along with proprietary corrosion inhibitors and microbiocides. Similar programs can also be conducted at start-up to help you restore equipment to peak operating efficiency. Once the cleaning has been completed, a suitable maintenance or layup procedure must be implemented on the system.

### ***New Equipment Cleanout Procedures:***

Before any new boilers, cooling water equipment or piping is placed on-line, it should first be cleaned by an approved procedure to remove accumulated flash rust, mill scale and oil and grease deposits. If not removed, these contaminants can lead to long-term operational problems, including underdeposit, chip scale, and pitting-type corrosion, which can greatly shorten the service life of the equipment. For new installations, Jamestown offers flexible yet comprehensive cleanout procedures, using proven treatment programs and highly-trained personnel, which can address all of your building-specific operational concerns.



***Please call us directly if you have any questions regarding our supplemental cleaning programs. A Jamestown representative will work with you to develop a program specific to your needs.***



***Over 40 Years of Experience in Cooling and Boiler Water Treatment Systems. Today, we continue to provide innovative products and services formulated to optimize the performance and efficiency of most industrial, commercial and institutional treatment programs.***



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**203 932 3655**

FAX: 203 933 1751

info@jamestowntech.com  
www.jamestowntech.com