



- **ONE TEAM.**
- **ONE FOCUS.**
- **YOUR SUCCESS!**

Recirculation Technologies, LLC

Your Full Service Resource For Water System Improvement

Introduction to Recirculation Technologies, LLC

Situation: Who We Are

Pure water is the lifeblood of every process plant – in fact, the heart of every plant. Ensuring that enough high-quality water is generated at optimal costs is therefore a key strategic goal for high-performing industrial water systems. However, the variability of surface feed water continues to challenge the capability of aging water treatment systems to keep pace with often growing demands from the process operations.

At the same time, many plants have struggled to keep up with maintenance demands in their water plants, while at the same time experiencing both problems monitoring system data and rising costs from suppliers.

All of these issues have combined to threaten water throughput and increase costs. Recirculation Technologies, LLC (RTI) is dedicated to **helping water plants reduce risk and reduce costs** by offering the following services:

- **Technical Audits** to identify improvement opportunities in the water plant
- **Ion exchange resin restoration**
- **Reverse osmosis (RO) membrane restoration**
- Independent and **extensive lab analytical capabilities**
- **Water Manager software** to monitor performance and predict system needs
- **Water truck back up** if capacity is temporarily compromised
- **Emergency services** for when the unexpected arises and you need help
- **Multi-year service arrangements** to facilitate focus and budget flexibility

What We Do: RTI's Predictive Restoration™ Service

RTI solves the problems outlined above with a combination of unparalleled experience with these systems and a hands-on approach that focuses on real results and demonstrable

reductions in risk and savings. We call the program **Predictive Restoration**, and we accomplish this by an integrated approach that:

- Uses data as both a guide and a critical element in auditing performance
- Developed patented technologies that have been proven to work in over 150 plants
- Uses easy to implement processes at all phases
- Has a focus on on-site work in all facets of what we do:
 - Technical audits involve extensive plant focused steps oriented around actual processes
 - Restoration activities can all be accomplished on-site with minimal plant disruption
- Uses speed to everyone's advantage – waiting for improvements is not an option
- Utilizes a knowledgeable and “easy to work with” approach that makes your operation the focal point

The RTI approach has been proven to be an effective positive resource for many plants already:

- RTI started in 2001 by acquiring resin cleaning technology from Betz Laboratories
- New patented technologies were developed and commercialized in 2006
 - Validated by a national engineering firm
- RTI now services over 150 plants:
 - Restored over 750,000 ft³ of resin
 - Saved customers millions of dollars in operating costs
 - In refinery, chemical, electric utility and paper industries
- RTI was purchased in 2012:
 - Provided growth capital and energy to grow in size and scope
 - Expanded services to water managers
 - Developing new technologies and partnerships focused on water system efficiency and effectiveness
- Management strategy focused on measureable customer improvements and consistently exceeding customer needs



Recirculation Technologies, LLC



RTI's Mobile Cleaning Unit

When RTI's processes are combined with the software and know-how contained within both RTI and your water plant, the result is the industry's most convenient and cost effective solution for keeping water systems performing at optimum levels.

You now have the ability to tap into actionable knowledge that will allow you to solve many long standing issues and proactively stay ahead of the game. No other resource takes as comprehensive a look at water system improvement as RTI does

Benefits

With experience over one hundred and fifty plants serving the energy utility, refinery, chemical and paper production industries, the benefits of RTI's water system improvement approach include:

- **Restoration of RO membranes and ion exchange resin to "like new" condition**
- **Reduction in the operating costs of the water system**
- **Higher throughput and permeate flow rates, resulting in a more consistent and reliable operation**
- **Tailored improvement planning based upon monitored data and flow rate demands**
- **Overall operational risk reduction**
- **Fewer unplanned operating issues that often lead to expensive quick fixes**
- **Consistently higher quality water through the system, extending equipment life and ensuring optimal performance**

- **On-site focus for services – whatever is most convenient for your operation**
- **Less water used and waste leaving the plant, improving sustainability initiatives**
- **Peace-of-mind that purified water is available to meet a facilities product needs...day and night**
- **Valuable economic data that plots monthly cost of operating the water plant compared with the accrued savings of restoring the systems**
- **Known hard cost savings, particularly related to operating costs**
- **A demonstrated return on investment usually in less than three months**

How to Get Started

- Data is generated and recorded specific to your system's performance and capabilities
- Together with you, RTI examines other water plant issues impeding system performance
- RTI prepares a comprehensive improvement plan...**ready for implementation!**

ReStore.....Don't Replace!

Reduce Water Risk

Improve Water Quality

Cut Operating Costs

Call or Contact RTI at (215) 682-7099

www.rtiservices.com

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