

Recover Your Anion Bed with RTI's Resin Separation Services

In industrial water treatment systems, ion exchange vessels play a critical role in ensuring consistent water quality and operational efficiency. However, even with diligent maintenance and system oversight, unexpected failures can occur. One of the more disruptive issues is **lateral failure in a cation vessel**, which can lead to **cation resin migrating into the anion bed**.

This type of contamination can significantly impair system performance and lead to costly downtime—but **it doesn't mean the anion resin is lost**. With the right intervention, it can often be recovered and restored to full operation.

What Happens When Cation Resin Enters the Anion Vessel?

When a lateral inside a cation vessel fails—often due to mechanical stress, aging materials, or pressure spikes—it can allow **cation resin beads to escape** and travel downstream. In many systems, this displaced resin ends up in the anion vessel.

This crossover creates two major problems:

- **Compromised Regeneration:** Anion regeneration chemistry is not designed for cation resin. The presence of cation resin interferes with the regeneration process, rendering the entire bed ineffective.
- **Reduced Water Quality:** As the anion bed loses efficiency, water quality begins to degrade, potentially affecting downstream processes or system compliance.

RTI's Resin Separation Service: A Proven Solution

Recirculation Technologies LLC (RTI) offers a specialized **resin separation service** designed to solve this exact issue. Using industry-tested methods, we carefully separate and remove the **misplaced cation resin from the anion bed**.

This service allows you to:

- **Recover valuable anion resin** that would otherwise be discarded
- **Restore regeneration performance** and extend resin life
- **Avoid costly full resin replacement**

In many cases, the recovered anion resin can be cleaned, tested, and returned to service—**saving thousands of dollars in replacement costs.**

Additional Services for Comprehensive Support

RTI goes beyond resin separation to ensure your entire system is restored and protected from future issues. During the same service call, we can:

- **Remove resin from the vessel with the broken lateral**
- **Support or perform lateral inspections and repairs**
- **Reinstall cleaned or new resin following manufacturer protocols**
- **Conduct a vessel inspection to check for additional damage or risks**

By offering a turnkey approach, RTI reduces your coordination time, minimizes plant downtime, and ensures a faster return to full operational capacity.

Why Choose RTI?

With **over 30 years of experience** in ion exchange systems and resin technologies, RTI is a trusted partner to industrial water plants across the country. Our teams mobilize quickly, work efficiently, and always follow best practices to protect your equipment and investment.

We're committed to providing **cost-effective, reliable solutions** when you need them most—especially during unplanned events that threaten productivity.

Need Help Now?

If you're facing resin crossover or suspect lateral failure in your system, **don't wait for water quality to degrade further.** RTI's Resin Separation Services can get your system back online—**quickly, safely, and cost-effectively.**

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