Membrane Regeneration

Regeneration Service for Reverse Osmosis (RO) Membranes

Background

RO membrane performance can be negatively impacted by impurities that build up on the membrane surface during operations. Suspended solids, microorganisms and mineral scale can foul membrane elements. These deposits can cause loss in output and/or rejection levels and reduce total system performance. Off-site membrane cleaning and regeneration is quickly replacing typical clean-in-place procedures as a more effective method for removing foulants and restoring membrane performance. In addition, membrane regeneration is more cost effective than membrane replacement. Membrane elements can be regenerated several times, doubling or tripling their longevity.

Services Offered

The GE Water & Process Technologies Membrane Regeneration service is a proprietary, noninvasive process that combines customized cleaning formulations with a physical process to complex to be performed in the field. The process is performed under controlled parameters, which ensures that all membranes are handled according to the limits specifically prescribed by the membrane manufacturer.

The service includes characterization and pre-testing, cleaning, post-testing, packaging and shipping. Pre and post testing of every element allows us to provide our customers with documented proof of improved performance.

Benefits

Lower than the cost of membrane replacement, the GE Membrane Regeneration process:

• Improves membrane performance
• Extends membrane life
• Minimizes system downtime
• Increases time between cleanings
• Maximizes productivity
• Reduces or eliminates chemical handling

Studies indicate membrane regeneration typically results in:

• 30% to 40% increase in permeate flow
• 30% to 40% decrease in differential pressure

For more information, contact your local GE representative or visit our website at www.gewater.com