



## Electrodeionization Evaluation Program (EEP)<sup>SM</sup>

WHEN TO CONSIDER THE EVALUATION PROGRAM

**Low EDI Product Quality** – pretreatment is key to any EDI performance. Our evaluation will find root causes for low product resistivity and poor ion rejection.

**Fouling Indicators** – High stack electrical resistance and high pressure drop are fouling indicators. By recognizing all fouling indicators early on most EDI performance can be recovered with proper cleaning procedure.

**Mechanical Failure** – System design and good engineering practices are important to any system. EDI leakage and oxidation of resin can irreversibly damage EDI systems if not detected early.

**Electrical Failure** – Improper EDI stack isolation and system grounding could lead to stray voltage and amperage leakage.

**Variability in Feed Source** – Changes in feed water are not uncommon. It can affect overall system performance resulting in higher maintenance costs.

**USP Requirements** – USP requirements are annually updated. Many EDI Systems are in cGMP validated facilities. This require documented preventative maintenance (PM) programs and updated standard operating procedures (SOP).

**Need for Upgrade or Replace Existing EDI** – The product life cycle varies among EDI suppliers. The evaluation program will provide an objective recommendation for EDI replacement.

BENEFITS

**Reliability** – Improve system reliability by anticipating and recognizing problems with your EDI system.

**Process Control** – Improve water recovery and throughput understanding the limitations of your EDI system.

**Lower Costs** – Reduce costs by reviewing the maintenance program in the pretreatment, affecting overall performance of downstream operations.

CANDIDATES FOR EEP

- Pharmaceuticals      Laboratories
- Biotech                      Semi-Conductor
- Power Plants              Food & Beverage
- Chemicals
- Boiler Feed Applications

SOLVING PURE WATER NEEDS

Applied Water Solutions, Inc. is dedicated exclusively to solving the pure water needs of different industries. Our best practice approach brings together the highest level of expertise with the best available technologies providing a cost effective, practical solution. We specialize and integrate the latest and most complementary technologies in:

- Electrodeionization (EDI, CEDI)
- Gas Transfer Membranes
- Reverse Osmosis (RO)
- Ion Exchange
- Electrodialysis (ED)
- Ultrafiltration (UF)
- Ultraviolet Light (UV)



Web: [www.appliedwatersolutions.com](http://www.appliedwatersolutions.com)

E-mail: [inquiries@appliedwatersolutions.com](mailto:inquiries@appliedwatersolutions.com)

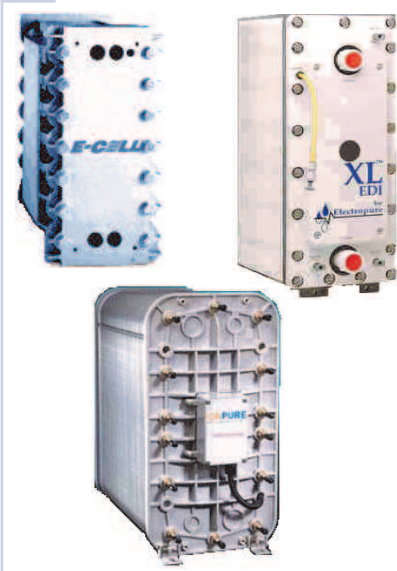
Applied Water Solutions, Inc.  
P.O. Box 50, Burlington, MA 01803  
Phone (781) 750-8682  
Fax: (781) 791-5769

# Electrodeionization Evaluation Program

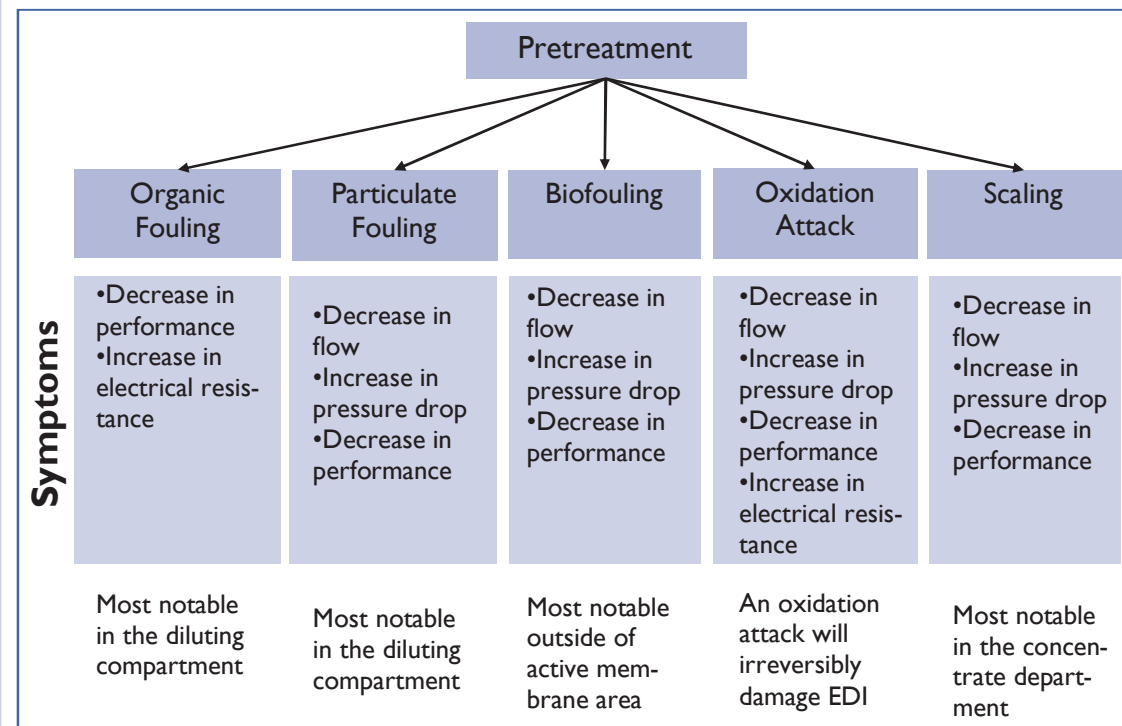
## PROCESS

- Water Analysis (optional)
- Review of current operating parameters
- Review of practices performed on equipment
- Analysis of operating and maintenance parameters vs. manufacturer's recommended operations and industry standards
- Recommendations of changes to unit operations
- SEM and autopsies (optional)
- Recommendations of alternate technologies to improve operations
- Confidential report / Documentation
- Training on technical issues and recommendations

EDI



EDI TROUBLESHOOTING



With over 17 years of EDI experience **AWS** can offer an objective, independent evaluation of your EDI System (all brands, USF H-series, P-series), water generation, pre and post treatment and distribution system. **AWS** provides data analysis, RO projections, staff training and documentation. **AWS** is an authorized service provider for all EDI brands, including earlier models, Ionpure, E-Cell, Electropure, and others. Evaluation programs are independent from equipment manufacturers. Based on the evaluation we offer a stack replacement program for all models of EDI (CEDI).

Our EEP program is part of our larger System Evaluation Program (SEP)<sup>SM</sup>, and Plant Evaluation Program (PEP)<sup>SM</sup>. For more information visit our website at [www.appliedwatersolutions.com](http://www.appliedwatersolutions.com).

**“BRINGING CLARITY TO THE TURBID WATERS OF TECHNOLOGY”<sup>SM</sup>**

