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Standard Guide for Record Keeping for Electrodialysis/Electrodialysis Reversal Systems¹

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1. Scope

- 1.1 This guide covers procedures for well defined record keeping for electrodialysis (ED) and electrodialysis reversal (EDR) systems.
 - 1.2 This guide includes a start up report and record keeping for ED/EDR and pretreatment operating and maintenance data.
 - 1.3 This guide is applicable to all waters but is not necessarily complete for waste waters.
- 1.4 This is a guide only and should not be construed as a complete delineation of all record keeping required for a specific application.
- 1.5 This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

2. Referenced Documents

2.1 ASTM Standards:²

D1125 Test Methods for Electrical Conductivity and Resistivity of Water D1129 Terminology Relating to Water

D1253 Test Method for Residual Chlorine in Water

D1889 Test Method for Turbidity of Water (Withdrawn 2007)³

D4189 Test Method for Silt Density Index (SDI) of Water

D5091 Guide for Water Analysis for Electrodialysis/Electrodialysis Reversal Applications

3. Terminology

3.1 Definitions—For definitions of terms used in this guide refer to Terminology D1129. d1272155/astm-d5131-902014

4. Significance and Use

- 4.1 Proper operation and maintenance of an ED/EDR system and any associated pretreatment system are key factors in obtaining optimum performance. This guide provides the necessary input data for the evaluation of the performance of the ED/EDR system, the pretreatment system, and the mechanical equipment in the plant.
- 4.2 This guide is for general guidance only and must not be used in place of the operating manuals and manufacturer's recommendations for specific equipment or a specific application.
- 4.3 Site dependent, equipment design and regulatory requirement factors prevent specific recommendations for all record keeping. Thus, only general record keeping relating to operation and maintenance is covered by this guide.

5. Procedure

5.1 Start Up Report:

¹ This guide is under the jurisdiction of ASTM Committee D19 on Water and is the direct responsibility of Subcommittee D19.08 on Membranes and Ion Exchange

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For Annual Book of ASTM Standards volume information, refer to the standard's Document Summary page on the ASTM website.

³ The last approved version of this historical standard is referenced on www.astm.org.