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Standard Guide for Recordkeeping for Reverse Osmosis and Nanofiltration Systems¹

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1. Scope

- 1.1 This guide covers procedures for well-defined recordkeeping of reverse osmosis (RO) and nanofiltration (NF) systems.
- 1.2 This guide includes a start-up report, recordkeeping of RO and NF operating data, recordkeeping of pretreatment operating data, and a maintenance log.
- 1.3 This guide is applicable to waters including brackish waters and seawaters but is not necessarily applicable to wastewaters.
- 1.4 The values stated in SI units are to be regarded as standard. No other units of measurement are included in this standard.
- 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

- D 1125 ~~Test Methods for Electrical Conductivity and Resistivity of Water~~ Practice for Numbering Metals and Alloys in the Unified Numbering System (UNS)
- D 1129 ~~Terminology Relating to Water~~² Practice for Numbering Metals and Alloys in the Unified Numbering System (UNS)
- D 1253 ~~Test Method for Residual Chlorine in Water~~² Practice for Numbering Metals and Alloys in the Unified Numbering System (UNS)
- D 1889 ~~Test Method for Turbidity of Water~~² Practice for Numbering Metals and Alloys in the Unified Numbering System (UNS)
- D 3739 ~~Practice for Calculation and Adjustment of Langelier Saturation Index for Reverse Osmosis~~ Practice for Numbering Metals and Alloys in the Unified Numbering System (UNS)
- D 4189 ~~Test Method for Silt Density Index (SDI) of Water~~² Practice for Numbering Metals and Alloys in the Unified Numbering System (UNS)
- D 4194 ~~Test Methods for Operating Characteristics of Reverse Osmosis and Nanofiltration Devices~~³ Practice for Numbering Metals and Alloys in the Unified Numbering System (UNS)
- D 4195 ~~Guide for Water Analysis for Reverse Osmosis Application~~³ Practice for Numbering Metals and Alloys in the Unified Numbering System (UNS)
- D 4582 ~~Practice for Calculation and Adjustment of the Stiff and Davis Stability Index for Reverse Osmosis~~³ Practice for Numbering Metals and Alloys in the Unified Numbering System (UNS)
- D 6161 Practice for Numbering Metals and Alloys in the Unified Numbering System (UNS)

3. Terminology

- 3.1 *Definitions*—For definitions of terms used in this guide, refer to Terminology D 1129 and D 6161.
- 3.2 ~~*Definitions of Terms Specific to This Standard*~~: For description of terms relating to RO, refer to Practice D 3739 and Test Methods D 4194.

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 Materials.

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² Annual Book of ASTM Standards, Vol 11.01.

³ 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.