Reclaimed Water Program Operation and Management

Effective date: May 1, 2014.
This first edition approved by AWWA Board of Directors Jan. 19, 2014.
AWWA Management Standard

This document is an American Water Works Association (AWWA) management standard. It is not a specification. AWWA management standards describe consensus requirements for utility management practices. The use of AWWA management standards is entirely voluntary. This standard does not supersede or take precedence over or displace any applicable law, regulation, or codes of any governmental authority. AWWA management standards are intended to represent a consensus of the water industry of requirements and practices that utilities should strive to achieve. When AWWA revises or withdraws this standard, an official notice of action will be placed in the Official Notice section of Journal - American Water Works Association. The action becomes effective on the first day of the month following the month of Journal - American Water Works Association publication of the official notice.

American National Standard

An American National Standard implies a consensus of those substantially concerned with its scope and provisions. An American National Standard is intended as a guide to aid the manufacturer, the consumer, and the general public. The existence of an American National Standard does not in any respect preclude anyone, whether that person has approved the standard or not, from manufacturing, marketing, purchasing, or using products, processes, or procedures not conforming to the standard. American National Standards are subject to periodic review, and users are cautioned to obtain the latest editions. Producers of goods made in conformity with an American National Standard are encouraged to state on their own responsibility in advertising and promotional materials or on tags or labels that the goods are produced in conformity with particular American National Standards.

CAUTION NOTICE: The American National Standards Institute (ANSI) approval date on the front cover of this standard indicates completion of the ANSI approval process. This American National Standard may be revised or withdrawn at any time. ANSI procedures require that action be taken to reaffirm, revise, or withdraw this standard no later than five years from the date of ANSI approval. Purchasers of American National Standards may receive current information on all standards by calling or writing the American National Standards Institute, 25 West 43rd Street, Fourth Floor, New York, NY 10036; (212) 642-4900, or emailing info@ansi.org.
Committee Personnel

The AWWA Standards Committee on Reclaimed Water, which reviewed and approved this standard, had the following personnel at the time of approval:

Ane Deister, Chair

General Interest Members

D.K. Ammerman, AECOM, Orlando, Fla. (AWWA)
J. Beatty,* KPMG, Sachse, Texas (AWWA)
T.W. Bell-Games, Burgess and Niple, Columbus, Ohio (WEF) (AWWA)
F. Bloetscher, Florida Atlantic University, Hollywood, Fla. (AWWA)
J.A. Cathcart, HDR Engineering, Irvine, Calif. (AWWA)
J. Crook, Norwell, Mass. (WEF) (AWWA)
A.D. Deister, Parsons, Sacramento, Calif. (AWWA)
D.M. Flancher,† AWWA Staff Engineer, Denver, Colo. (AWWA)
N.A. Fontaine, Carollo Engineers, Sacramento, Calif. (AWWA)
J. Gemin,† Standards Council Liaison, AECOM, Kitchener, Ont. (AWWA)
J. Jackson, Brown and Caldwell, Altamonte Springs, Fla. (AWWA)
C. Mysore, Buford, Ga. (AWWA)
J.A. Oppenheimer, MWH, Arcadia, Calif. (AWWA)
A. Rimer, Black and Veatch, Cary, N.C. (AWWA)
J. Rysavy, Burns & McDonnell, Centennial, Colo. (WEF) (AWWA)
W.D. Vandertulip, WateReusEngineers, San Antonio, Texas (WEF) (AWWA)
G.S. Whitten, Phoenix, Ariz. (AWWA)

Producer Members

G. Dechant, Laboratory Quality Systems, LLC, Grand Junction, Colo. (ASQ)(AWWA)
R.M. Reed, FTT, Orlando, Fla. (WEF) (AWWA)

User Members

J.D. Brown, Contra Costa Water District, Concord, Calif. (AWWA)
M. Gasca, Los Angeles County Sanitation Districts, Whittier, Calif. (AWWA)

* Informational member, nonvoting
† Liaison, nonvoting
T.W. McKim, Reedy Creek Improvement District, Lake Buena Vista, Fla. (AWWA)
C.L. Riley, Washington State Department of Health, Spokane, Wash. (AWWA)
T.J. Roy, San Diego County Water Authority, San Diego, Calif. (AWWA)
S.T. Speas-Frost, Florida Department of Environmental Protection, Tallahassee, Fla. (AWWA)
Contents

All AWWA standards follow the general format indicated subsequently. Some variations from this format may be found in a particular standard.

SEC. PAGE  SEC. PAGE

Foreword
I Introduction................................. vii 1.3 Application................................. 1
I.A Background................................. vii 2 References................................. 2
I.B History..................................... vii 3 Definitions................................. 2
I.C Acceptance................................. vii 4 Requirements
II Special Issues.............................. ix 4.1 Regulatory Requirements.............. 4
II.A Advisory Information on 4.2 Management Programs.............. 4
    Application of Standards........... ix 4.3 Source Water............................. 8
II.B Advisory Information on 4.4 Operations.......................... 8
    Regulatory Issues.................... ix 4.5 Reclaimed Water Delivery
II.C Indirect and Direct Potable Reuse .... ix Programs.............................. 9
III Use of This Standard................... ix 5 Verification
III.A General................................ ix 5.1 Human Resources...................... 11
III.B Modification to Standard........... x 5.2 Documentation required.............. 12
IV Major Revisions........................ x 6 Delivery................................. 13
V Comments................................. x

Standard

1 General
1.1 Scope ...................................... 1
1.2 Purpose .................................. 1