



**American Water Works  
Association**

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**ANSI/AWWA G510-13**  
(First Edition)

**AWWA Management Standard**

# Wastewater Treatment Plant Operation and Management

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This first edition approved by AWWA Board of Directors June 9, 2013.

Approved by American National Standards Institute Nov. 26, 2013.



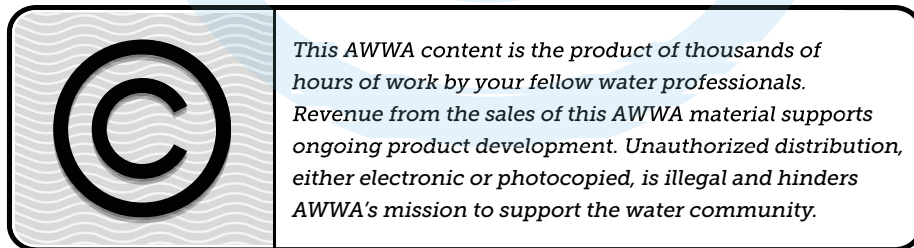
## AWWA Management Standard

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## Committee Personnel

The AWWA Standards Committee on Wastewater Treatment Plant Operation and Management, which reviewed and approved this standard, had the following personnel at the time of approval:

John Troutman, *Chair*

### *General Interest Members*

A. Ambulkar, Brinjac Engineering Inc., Harrisburg, Pa.	(AWWA)
A. Griffith,* Clemson University, Seneca, S.C.	(AWWA)
G. Dechant, Laboratory Quality Systems LLC, Grand Junction, Colo.	(AWWA)
L. Furatian,* University of British Columbia, Vancouver, B.C.	(AWWA)
T. Jordan, HDR Inc., Denver, Colo.	(AWWA)
K. Mestayer, KMA Consulting, Williamsburg, Va.	(AWWA)
B. Percy,* Garnsby and Mannerow Ltd., Guelph, Ontario	(AWWA)
C.A. Rosado, ETAG, Cagus, Puerto Rico	(PRWEA, AWWA)
D.L. Russell, Global Environmental Operations Inc., Lilburn, Ga.	(AWWA)
J.S. Troutman, Miller Environmental Group Inc., Columbia, Pa.	(AWWA)
G.S. Whitten, Southwest Water Consultants LLC, Phoenix, Ariz.	(AWWA)
C.H. Sham,† The Cadmus Group Inc., Waltham, Mass.	(AWWA)
D.M. Flancher,* AWWA Standards Engineer, Denver, Colo.	(AWWA)

### *User Members*

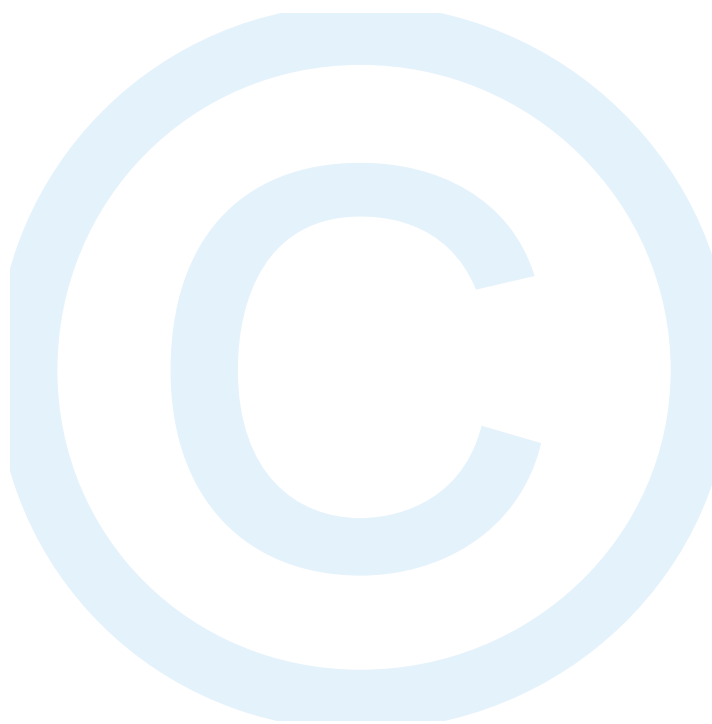
A.W. Fairey, Charleston Water System, Charleston, S.C.	(AWWA)
D. Falkner, Village of Mukwonago, Mukwonago, Wis.	(AWWA)
J.H. Meyer, Fort Meyers, Fla.	(AWWA)
P.E. Petersen, Milwaukee Water Works, Milwaukee, Wis.	(AWWA)
R. Komaragiri, California Water Service Company, Torrance, Calif.	(AWWA)

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\* Nonvoting

† Liaison, nonvoting

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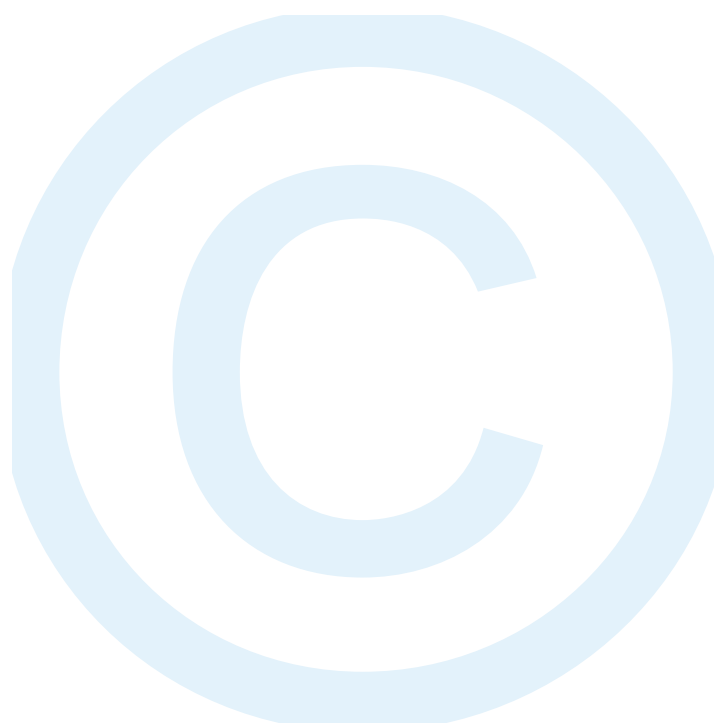


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# Foreword

*This foreword is for information only and is not a part of ANSI\*/AWWA G510.*

## **I. Introduction.**

I.A. *Background.* The AWWA standards program is designed to serve water, wastewater, and reuse utilities—hereafter, the water sector—and their customers, owners, service providers, and government regulators. The standards developed under the program are generally intended to improve a plant's overall operations and service. Among these standards is this effort to establish formal management and operations guidelines. These guidelines identify appropriate practices, procedures, and behaviors whose implementation will promote effective and efficient plant operations and contribute to protection of public health, public safety, and the environment.

AWWA's standards process has been used for more than 90 years to produce American National Standards Institute (ANSI)-recognized standards for materials and processes that are used by the water sector. These standards are recognized worldwide and have been adopted by many utilities and organizations. Likewise, this management standard is developed using the same ANSI-recognized formal process. Volunteer standards committees establish standard practices in a uniform and appropriate format.

Formal standards committees have been and continue to be formed to address the individual standards practices for the diverse areas of water sector operation. A formal standards committee was created in 2009 to develop a standard for wastewater treatment plant operation and management. This standard is the outcome of the Wastewater Treatment Plant Operation and Management Standards Committee.

I.B. *History.* This is the first edition of this standard. It was approved by the AWWA Board of Directors on June 9, 2013.

I.C. *Acceptance.* ANSI/AWWA G510 does not address additives requirements. Users of this standard should consult the appropriate state or local agency having jurisdiction in order to

1. Determine additives requirements, including applicable standards.
2. Determine the status of certifications by parties offering to certify products for contact with, or treatment of wastewater, including reclaimed water.
3. Determine current information on product certification.

## **II. Special Issues.**

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\* American National Standards Institute, 25 West 43rd Street, Fourth Floor, New York, NY 10036.

II.A. *Advisory Information on Application of Standards.* This standard includes only those requirements that are limited exclusively to management practices for operation and management of a wastewater treatment facility. Separate standards adopted by the Standards program cover utility management programs, such as water treatment, water distribution, source water protection, security, emergency preparedness practices, business practices, and communication and customer relations. More topics will be added over time, including wastewater collection systems.

**III. Use of This Standard.** It is the responsibility of the user of an AWWA standard to determine that the products and practices described in that standard are suitable for use in the particular application being considered.

III.A. *Options and Alternatives.* The following should be considered by the user:

1. Standard used—that is, ANSI/AWWA G510, Standard for Wastewater Treatment Plant Operation and Management, of latest revision.
2. Details of other federal, state or provincial, and local governments (Sec. 4.1).
3. If a pretreatment program is required.
4. If a hauled-waste program is required.
5. If a fats, oils, and grease (FOG) management program is required.
6. Treated effluent requirements for reclaimed water use.
7. If a stormwater management system is required.

III.B. *Modification to Standard.* There is no applicable information for this section.

**IV. Major Revisions.** This is the first edition; as such, there are no major revisions.

**V. Comments.** If you have any comments or questions about this standard, please call AWWA Engineering and Technical Services at 303.794.7711, FAX at 303.795.7603, write to the department at 6666 West Quincy Avenue, Denver, CO 80235-3098, or email at [standards@awwa.org](mailto:standards@awwa.org).





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# Wastewater Treatment Plant Operation and Management

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## SECTION 1: GENERAL

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### **Sec. 1.1 Scope**

This standard describes the essential or critical requirements for the effective operation and management of a wastewater treatment plant.

### **Sec. 1.2 Purpose**

The purpose of this standard is to define the minimum requirements for the effective operation and management of wastewater treatment plants, including water quality, system management programs, and operation and maintenance of facilities.

### **Sec. 1.3 Application**

This standard can be referenced in the evaluation of the operation and management of a wastewater treatment plant. The stipulations of this standard apply when this document has been referenced and then only to the operation and management of wastewater treatment plants.