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*(Revision of ANSI/AWWA G430-09)
(Reaffirmed without revision 2020)*

AWWA Management Standard

Security Practices for Operation and Management

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American Water Works
Association



AWWA Management Standard

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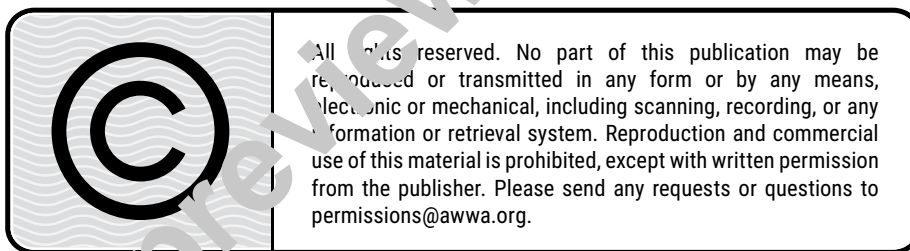
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Contents

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		4.4	Up-To-Date Assessment of Risk 8
I	Introduction..... vii	4.5	Resources Dedicated to Security and Security Implementation Priorities..... 8
I.A	Background..... vii	4.6	Access Control and Intrusion Detection 9
I.B	History..... vii	4.7	Contamination Detection, Monitoring, and Surveillance 11
I.C	Acceptance vii	4.8	Information Protection and Continuity 14
II	Special Issues vii	4.9	Design and Construction 16
II.A	Advisory Information on Application of Standards vii	4.10	Threat Level-Based Protocols..... 16
II.B	Origination of Standard viii	4.11	Emergency Response and Recovery Plans and Business Continuity Plan..... 17
II.C	Safety Act Designation viii	4.12	Internal and External Communications 18
III	Use of This Standard viii	4.13	Partnerships..... 19
III.A	Options and Alternatives..... viii	5	Verification
III.B	Modification to Standard ix	5.1	Documentation Required 19
IV	Major Revisions..... ix	5.2	Human Resources 22
V	Comments ix	5.3	Equipment 23
Management Standard		6	Delivery 23
1	General	Appendix	
1.1	Scope..... 1	A	Resources 25
1.2	Purpose 1	Table	
1.3	Application..... 1	1	Supporting Documentation Required by this Standard by Section 20
2	References 1		
3	Definitions 2		
4	Requirements		
4.1	Explicit Commitment to Security.... 6		
4.2	Security Culture 6		
4.3	Defined Security Roles and Employee Expectations..... 7		

Foreword

This foreword is for information only and is not a part of ANSI/AWWA G430.*

I. Introduction

I.A. *Background.* The AWWA Management Standards Program is designed to serve water, wastewater, and reuse utilities and their customers, owners, service providers, and government regulators. The standards developed under the program are intended to improve a utility's overall operation and service. Among these standards is this effort to establish formal management and operational guidelines. These guidelines identify appropriate practices, procedures, and behaviors the implementation of which will provide effective and efficient utility operations, and contribute to the 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 standard practices for the diverse areas of the Water Sector. A formal standards committee was created in 2007 to develop a standard for security. This standard is the outcome from the Security Practices for Operation and Management Committee.

I.B. *History.* The first edition of this standard was approved by the AWWA Board of Directors on Jan. 25, 2009. This edition was approved on June 8, 2014 and reaffirmed without revision on Oct. 26, 2020.

I.C. *Acceptance.* No applicable information for this standard.

II. Special Issues.

II.A. *Advisory Information on Application of Standards.* This standard includes only those requirements that are limited exclusively to security practices for operation and management of a drinking water, wastewater, or reuse system. Separate standards will cover utility programs such as distribution system operation and management, emergency preparedness, financial management, water treatment, source water

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

protection, communications and customer relations, and business systems. At the time of issuance of this standard, neither the Department of Homeland Security* (DHS) nor the US Environmental Protection Agency (USEPA)[†] has developed regulatory standards for the Water Sector.

II.B. *Origination of Standard.* This standard originates from recommendations prepared by the USEPA's National Drinking Water Advisory Council[‡] (NDWAC) on water security practices, incentives, and measures, dated June 2005. A subsequent workgroup was convened in February 2007 by the Critical Infrastructure Partnership Advisory Council[§] (CIPAC) to develop a national performance measurement system and revise the NDWAC recommendations to track with the Water Sector-Specific Plan (Water SSP), which is also described in appendix A. Both sets of recommendations have informed the development of this standard.

II.C. *SAFETY Act Designation.* The American Water Works Association Standards G430 and J100 have been awarded SAFETY Act designation by the US Department of Homeland Security. The designation carries important liability protection for the association and for utilities that properly implement these standards.

The Support Anti-terrorism by Fostering Effective Technologies Act (SAFETY Act) of 2002 was enacted by Congress in the wake of the terrorist attacks on Sept. 11, 2001. The SAFETY Act was created in part because of the extraordinarily large liability entities might face if a terrorist attack occurs despite deployment of anti-terrorism security measures already in place. Congress designed the SAFETY Act as an incentive for the creation and deployment of technologies and services with anti-terrorism capabilities. Under the SAFETY Act designation, both the entity that creates the anti-terrorism security measure and the entity that deploys the anti-terrorism measure are eligible for certain liability protections.

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

III.A. *Options and Alternatives.* There is no applicable information in this section.

* US Department of Homeland Security, Washington, DC 20528.

[†] US Environmental Protection Agency, Ariel Rios Building, 1200 Pennsylvania Avenue, NW, Washington, DC 20460.

[‡] National Drinking Water Advisory Council, Office of Ground Water and Drinking Water (4601), Ariel Rios Building, 1200 Pennsylvania Avenue, NW, Washington, DC 20460.

[§] Critical Infrastructure Partnership Advisory Council, US Department of Homeland Security, Washington, DC 20528.

III.B. *Modification to Standard.* No applicable information for this section.

IV. Major Revisions. The major changes made to the standard in this revision include the following:

1. Realignment of vulnerability assessment to risk assessment in accordance with ANSI/AWWA J100, Risk and Resilience Management of Water and Wastewater Systems
2. Integration of new AWWA cybersecurity guidance and use-case tool
3. Integration of ANSI/AWWA G440, Emergency Preparedness Practices
4. Revision/update of federal directives
5. Adjustment of reference to the ASCE materials formerly known as WPCF

V. Comments. If you have any comments or questions about this standard, please contact AWWA Engineering and Technical Services at 303.795.7711; FAX at 303.795.7603; write to the department at 6666 West Quincy Avenue, Denver, CO 80235-3098; or email at standards@awwa.org.



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Security Practices for Operation and Management

SECTION 1: GENERAL

Sec. 1.1 Scope

This standard covers the minimum requirements for a protective security program for a water, wastewater, or reuse utility.

Sec. 1.2 Purpose

The purpose of this standard is to define the minimum requirements for a protective security program for a water, wastewater, or reuse utility that will promote the protection of employee safety, public health, public safety, and public confidence.

Sec. 1.3 Application

This standard can be referenced in the evaluation of security practices. The stipulations of this standard apply when this document has been referenced and then only to the security practices of the utility.

SECTION 2: REFERENCES

This standard references the following documents. In their latest editions, or as specified, they form a part of this standard to the extent specified within