



AMERICAN WATER WORKS ASSOCIATION

MANUAL OF WATER SUPPLY PRACTICES

Recommended Practice for Backflow Prevention and Cross-Connection Control

AWWA M14

Recommended Practice For Backflow Prevention And Crossconnection Control Awwa Manual

Gregory J. Kirmeyer



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Recommended Practice for Backflow Prevention and Cross-connection Control American Water Works Association, 1966 **Recommended Practice for Backflow Prevention and Cross-connection Control** AWWA Staff, 2003 Cross connection control is one of the most important barriers in the multiple barrier approach drinking water suppliers use to protect public health Contamination of a drinking water distribution system through a cross connection often results in immediate adverse health effects illness or even death This Manual provides a total cross connection control program for your water system The manual explains how cross connections and backflow can occur and tells you how to choose install and maintain backflow prevention devices You ll learn the water purveyor s legal responsibilities as well as the customer s responsibilities in backflow prevention The manual covers risk assessment types of programs to consider and program administration Until the cross connection control program is fully developed the water purveyor is at maximum risk of potential liability This Manual also explains the hydraulics of backflow the two types of backflow backsiphonage and backpressure and the conditions that can cause backflow and a potential cross connection such as a water main break You ll get expert guidance in selecting and installing backflow prevention equipment and learn the 10 main types of backflow prevention devices or assemblies yes they are different and the relative effectiveness of each type against backsiphonage backpressure and low and high hazards The manual describes each device or assembly its application in a water system installation requirements Detailed assembly test procedures are included for the different types of devices and assemblies This Manual recommends backflow prevention equipment for installation in the water distribution system as well as raw water storage reservoirs chemical feed pumps and injectors filters surface washers saturators and dry chemical solution tanks sampling lines hose bib connections and membrane systems *Backflow Prevention and Cross-connection Control* American Water Works Association, 2014-12-15 This manual describes the causes and prevention of backflow and cross connections in potable water systems **M14 Backflow Prevention and Cross-Connection Control** Awwa, Mitch LeBas, 2023-08 This manual describes the causes and prevention of backflow and cross connections in potable water systems Backflow Prevention and Cross-connection Control Stuart F. Asay, 2015 **Recommended Practice for Backflow Prevention and Cross-connection Control** American Water Works Association, 2004 This manual describes the causes and prevention of backflow and cross connections in potable water systems Here is complete guidance for establishing a cross connection backflow prevention program for a water utility You ll learn the water purveyor s legal responsibilities as well as the customer s responsibilities in backflow prevention The manual covers risk assessment types of programs to consider and program administration Until the cross connection control program is fully developed the water purveyor is at maximum risk of potential liability M14 also explains the hydraulics of backflow the two types of backflow backsiphonage and backpressure and the conditions that can cause backflow and a potential cross connection such as a water main break **Operational**

Guide to AWWA Standard G200, 2009 On-site Generation of Hypochlorite American Water Works Association, 2015 As more water systems turn to safer alternatives to chlorine gas the generation of hypochlorite on site has become increasingly common M65 On Site Generation of Hypochlorite presents the principles of on site generation OSG the differences between low strength and high strength OSG systems and the subsequent impact each of these systems has on design construction and maintenance for water and wastewater utilities M65 provides operators and engineering staff with a basic understanding of how to design and install both low and high strength OSG systems how they work and how they compare with other popular forms of chlorine currently on the market A cost analysis and an examination of how OSG affects disinfection by product formation are also included This manual should help operators planners management and engineers improve their decision making processes about OSG systems using a holistic risk management approach that considers not only triple bottom line approaches but also the specific regional situation when choosing a chlorination system Need it now Learn about AWWA's digital downloads **Pathogen Intrusion Into the Distribution System** Gregory J. Kirmeyer, 2001 Reports on a project that identifies pathogen routes of entry into water distribution systems and develops monitoring and control strategies for protecting the system Contains chapters on pathogens and pathways existing control strategies transient surge modeling pressure monitoring field monitoring recommended control strategies and recommendations to utilities The project was completed by a multi disciplinary team of engineers and practitioners with funding from the American Water Works Association Research Foundation and the Environmental Protection Agency The book is not indexed Annotation c Book News Inc Portland OR booknews com **Impacts of Cross-Connections in North American Water Supplies** J. Lee, P. Schwartz, P. Sylvester, L. Crane, J. Haw, H. Chang, H. Kwon, 2004-01-01 For many years cross connections and backflow have been well understood Programs to prevent unhealthy situations from happening have been in place for many years However a general and extensive study on their impacts types of programs incidents and financial repercussions has not been conducted Many computer models for steady state or quasi steady state simulation exist but applications for transient state simulation especially demonstrating backflow incidents have rarely been done The first objective of this project was to assess the impacts financial and otherwise of cross connections and cross connection control in North American water supplies and to North American water purveyors The project team also planned to create and use a computer model to simulate and demonstrate hydraulic changes in the transient state Of the over 700 utilities surveyed 91% were found to have a cross connection control program Survey data indicated 65% of cross connections were indirect and 35% were direct Sudden changes of water demands in piping networks can cause sub atmospheric pressures within the systems resulting in backflow incidents Systems with larger variances in ground elevations have the greater possibility of creating sub atmospheric pressures as water demands in the systems change Originally published by AwwaRF for its subscribers in 2003 This publication can also be purchased and downloaded via Pay Per View on Water Intelligence Online click on the Pay Per View

icon below *Water Quality Complaint Investigator's Field Guide* William C. Lauer, 2011-01-12 This guide presents solutions to common customer water quality complaints to make dealing with customer complaints a rewarding and an important part of a water supplier's overall customer satisfaction plan **Sizing Water Service Lines and Meters, Third Edition (M22)** American Water Works Association, 2014-12-01 This third edition of M22 contains information needed to estimate customer demand and maximum expected flow that can be used to size new service lines and meters This edition expands the ways to approach the sizing of water service lines and meters and offers improved methods for the sizing of dedicated irrigation meters M22 includes a useful field method called demand profiling that can be used to evaluate actual customer use patterns and help optimize meter size selection The data presented in M22 were obtained from field measurements utility surveys technical publications and hydraulic design calculations This manual emphasizes that utilities having more information about a specific sizing situation will result in the best sizing decision from the tap to the meter This information has been condensed into a simplified format to assist readers in addressing most common service conditions The methods contained in this manual are appropriate for water utility managers engineers planners technicians field operations personnel and consultants involved with designing and constructing projects requiring water service **Manual, Guidelines for Water Reuse** United States. Environmental Protection Agency, 1992 *Development of Distribution System Water Quality Optimization Plans* Melinda J. Friedman, 2005 CD ROM contains chapter 4 and appendices A B **Backflow Protection for Residential Sprinkler Systems**, *Impact of Wet-Pipe Fire Sprinkler Systems on Drinking Water Quality* Steven J. Duranceau, Jacqueline Foster (V.), Jack Poole, 1998 [Sprinkler Hydraulics](#) Harold S. Wass Jr., Russell P. Fleming P.E., 2020-07-14 This is the foremost guide to hydraulically designing sprinkler systems for commercial and residential buildings Sprinkler Hydraulics Third Edition includes the latest developments in automatic sprinkler design as well as going beyond the NFPA 13 Standard to explain everything needed to know to professionally design a system Sprinkler Hydraulics Third Edition explains flow phenomena to help the reader evaluate calculated sprinkler systems Starting with a general discussion of the mathematics involved the discussion proceeds to define sprinkler density including several examples which explain how to determine discharge areas Includes the latest developments in automatic sprinkler design as well as going beyond the NFPA 13 Standard to explain everything needed to know to professionally design a system Starting with a general discussion of the mathematics involved the discussion proceeds to define sprinkler density including several examples which explain how to determine discharge areas Explains flow phenomena to help the reader evaluate calculated sprinkler systems **Water Fluoridation Principles and Practices** AWWA Staff, 2004 **Distribution System Requirements for Fire Protection** AWWA Staff, 2008 *Advances in Taste-and-odor Treatment and Control* AWWA Research Foundation, 1995

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