

# Water Audits and Loss Control Programs

MANUAL OF WATER SUPPLY PRACTICES

**M36**



*Third Edition*



American Water Works  
Association

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# Awwa Manual M36

**American Water Works Association**

## **Awwa Manual M36:**

*M36 - Water Audits and Loss Control Programs* American Water Works Association, 2024 This fifth edition of M36 features detailed instructions on Version 6.0 of the AWWA Free Water Audit Software released in 2020 and updated guidance on the use of key performance indicators instructions for water audits for wholesale water suppliers and updated leakage and pressure management methods and technology As in the third and fourth editions the fifth edition explains the AWWA water audit methodology in a user friendly manner and provides an overview of some of the best loss control techniques used to implement a sustainable non revenue water NRW management program Now more than ever water utility managers are being called upon to carefully evaluate inefficiencies in their water system and to take corrective actions to control excessive NRW The methods contained in this manual will help them do it reliably

*Water Audits and Loss Control Programs* American Water Works Association, 2008-12-02 In this handbook readers will find industry approved procedures for water utilities to conduct systemwide water audits to assess real and apparent distribution system water losses recover lost revenue and detect and repair pipe leaks

## **Water Audits and Leak Detection; AWWA Manual M36, Second Edition**

AWWA Staff, 2011-01-12 *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

**Water Conservation for Small- and Medium-sized Utilities** Deborah Green, 2010 Annotation For utilities serving up to 100 000 customers this book provides guidance on implementing a water conservation program With a menu of conservation approaches from which to choose the book lets utilities plan a custom program

Includes worksheets cost analysis sample programs and recommended budgets

## **Distribution Infrastructure Management**

Dan Ellison, 2001 *Susceptibility of Distribution Systems to Negative Pressure Transients* Kala K. Fleming, 2006 Low or negative pressure transients also called surge or water hammer create temporary opportunities for external chemical and microbial contaminants at higher pressure to enter the water distribution system creating potential health hazard and potential weakening of distribution pipes leading to failure This study investigates how such events as power outages pump shutdowns valve operations main flushing firefighting and main breaks can create significant rapid temporary drops in system pressure The report offers useful recommendations for using surge models to optimally locate pressure monitors and to minimize the occurrence and impact from low and negative pressure transients

## **Development of Distribution System**

*Water Quality Optimization Plans* Melinda J. Friedman, 2005 CD ROM contains chapter 4 and appendices A B

## **Preparing**

**Urban Water Use Efficiency Plans** Lisa Maddaus, William Maddaus, Michelle Maddaus, 2013-11-15 Many communities are facing water scarcity in developing and developed countries alike. There are numerous publications and on going research studies documenting the changes in our climate and potential for worsening shortages in our future. Meeting future potable water demands as communities continue to grow will rely heavily on using our existing water resources more efficiently. Preparing Urban Water Use Efficiency Plans provides detailed approaches to developing and implementing a water conservation plan. This book covers the broad spectrum of conservation planning for urban communities including achieving more efficiency from Residential domestic uses, Commercial and governmental facilities use, Industrial uses, Pricing Water Loss Control Programs. The steps in the Guide clearly outline and provide sample calculations to aid determining which water use efficiency activities are financially justifiable to undertake. The end result is a plan that policy decision makers can adopt and fund and that water service provider staff can implement to help increase their community's water reliability. It includes numerous case studies and a Microsoft Excel based software tool to allow planners to evaluate the business case for implementing various water conservation activities. This book is an essential resource for professionals in water and wastewater resources particularly for planners and engineers. It is also a useful guide for Post Graduate and Undergraduate students.

Author's Lisa Maddaus, William Maddaus, Michelle Maddaus, Water Management Inc. **Water Loss Control Manual** Julian Thornton, 2002-07-01 PRACTICAL SOLUTIONS TO COMPLEX WATER LOSS PROBLEMS With water costs and demand increasing worldwide at an incredible pace and availability decreasing at an alarming rate there has never been a greater need for practical hands on coverage of water auditing and loss reduction techniques. In Water Loss Control Manual an international expert examines every aspect of water loss and provides simple effective tested solutions. This highly visual reference includes coverage of The nature and scope of water loss occurring in water distribution systems. How to assess loss conditions in any system by using water audit and computer models to identify losses. How to implement interventions to control real losses. Mapping tools and techniques. Leak detection, repair and response time. Managing pressures and pressure related problems. Pipe rehabilitation and replacement. How to implement interventions to control apparent losses. Meter testing, repair and replacement. Billing system analysis and rectification. Reduction of unauthorized use. Demand control and water conservation. How to perform cost to benefit calculations. Field equipment Ideas and references collected from around the world make Water Loss Control Manual a particularly versatile guide valuable in a wide variety of situations. Numerous tables, diagrams, charts, graphs, photographs and basic explanations present information in a quick read easy to digest format and make the book immediately usable to all readers no matter what their level of expertise. If you're looking for a sound nuts and bolts manual on eliminating inefficiencies in water distribution systems your search ends here.

*Water Transmission and Distribution* American Water Works Association, 2003 Water distribution systems are made up of pipe, valves and pumps through which treated water is moved from the treatment plant to homes, offices, industries and other

consumers The types of materials and equipment used by each water system are usually governed by local conditions past practices and economics Consequently drinking water professionals must be knowledgeable about common types of equipment and operating methods that are available Completely revised and updated Water transmission and distribution includes information on the following distribution system design and operation and maintenance piping materials valves pumps and water meters water main installation backfilling main testing and installation safety fire hydrants water storage water services cross connection control motors and engines instrumentation and control information management and public relations Cover page 4 *Water Loss Control* Julian Thornton, Reinhard Sturm, George Kunkel, 2008-06-09 Master the Latest Techniques to Quantify Locate Control and Prevent Water and Revenue Loss in Water Utility Operations This comprehensive guide takes you step by step through every stage of the development of a water loss control program from measuring and auditing water loss tracking losses to their root cause to developing a loss control program for future efficiency Inside you'll find precise descriptions of the most current methodologies and technologies along with tables and figures presenting key information clearly and concisely This second edition brings innovative approaches to water loss management with information on new modeling methods leak detection equipment revenue protection programs and best practices advocated by the American Water Works Association and the International Water Association Includes Updated U S and international standardized water audit methodologies Step by step guide to creating an effective water loss control program Guidance on data collection validation and component analysis of water supply and customer consumption volumes Detailed description of available intervention tools against real losses Detailed description of available intervention tools against apparent losses Innovations in automatic meter reading AMR and advanced metering infrastructure AMI that will transform accountability in the water supply industry Integrated technologies to optimize water distribution system operations Detailed descriptions and case studies of successful water loss control and intervention programs Comprehensive glossary of terms Water Loss Control Manual covers Various Types of Water and Revenue Losses Traditional Control Methods Progressive Approaches Standard Water Audit Methodology Meaningful Performance Indicators Data Collection Information Management Validating the Water Audit Data Field Equipment Computer Modeling Strategies and Methods to Control Leakage and Optimize Revenue Recovery Active Leakage Detection and Repair Pressure Management Distribution System Rehabilitation Water Efficiency Programs Hiring Contractors Writing Bids Case Studies Calculations Industry Papers 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 **Madigan V. Illinois Commerce Commission** ,2013 *Water Distribution Operator Training Handbook* ,2005 AWWA s most popular handbook for distribution operators this handbook provides a complete introduction to water distribution system operation and equipment **Water Audits and Loss Control Programs** AWWA Staff,2009 Water Industry Systems Dragan Savic,Godfrey Walters,1999 These conference proceedings reflect the current and future roles of modeling and optimization in the description and management of water industry systems Balanced views of academic and industry experts from around the world are included in the two volumes of papers Insights are provided into the experiences of leading researchers and practitioners in applying modelling and optimization to the management of water quantity and quality The topics covered are advanced modelling techniques risk management process control and optimization with particular emphasis on the development and implementation of emerging technologies Application areas include both water supply and waste water disposal American Book Publishing Record ,2002 **Water Demand Management Cookbook** ,2003 Sci-tech News ,2000

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