

APPENDIX B

A REGULATION FOR THE CONTROL OF BACKFLOW AND CROSS-CONNECTIONS

Amendment to Mil Potrero Mutual Water Company
Rules, Regulations and Rates,
Section C: General Regulation, 5. Cross Connections

Section 1. CROSS-CONNECTION CONTROL — GENERAL POLICY

1.1 Purpose. The purpose of this Regulation Amendment is to comply with *California Title 17 Code of Regulations, Section 87584* and more importantly:

1.1.1 To protect the public potable water supply of Pine Mountain Club, CA from the possibility of contamination or pollution by isolating within the consumer's internal distribution system(s) or the consumer's private water system(s) such contaminants or pollutants which could backflow into the public water systems; and,

1.1.2 To promote the elimination or control of existing cross-connections, actual or potential, between the consumer's in-plant potable water system(s) and non-potable water system(s), plumbing fixtures and industrial piping systems; and,

1.1.3 To provide for the maintenance of a continuing Program of Cross-Connection Control which will systematically and effectively prevent the contamination or pollution of all potable water systems.

1.2 Responsibility. The Water Company shall be responsible for the protection of the public potable water distribution system from contamination or pollution due to the backflow of contaminants or pollutants through the water service connection. If, in the judgment of said Water Company an approved backflow prevention assembly is required (at the consumer's water service connection; or, within the consumer's private water system) for the safety of the water system, the Water Company or his designated agent shall give notice in writing to said consumer to install such an approved backflow prevention assembly(s) at a specific location(s) on his premises. The consumer shall immediately install such an approved backflow prevention assembly(s) at the consumer's own expense; and, failure, refusal or inability on the part of the consumer to install, have tested and maintained said assembly(s), shall constitute grounds for discontinuing water service to the premises until such requirements have been satisfactorily met.

Section 2. REQUIREMENTS

2.1 Water System

2.1.1 The water system shall be considered as made up of two parts: The Water Supplier's System and the Consumer's System.

2.1.2 Water Supplier's System shall consist of the source facilities and the distribution system; and shall include all those facilities of the water system under the complete control of the utility, up to the point where the consumer's system begins.

2.1.3 The source shall include all components of the facilities utilized in the production, treatment, storage, and delivery of water to the distribution system.

2.1.4 The distribution system shall include the network of conduits used for the delivery of water from the source to the consumer's system.

2.1.5 The consumer's system shall include those parts of the facilities beyond the termination of the water supplier distribution system which are utilized in conveying potable water to points of use.

2.2 Policy

2.2.1 No water service connection to any premise shall be installed or maintained by the Water Supplier unless the water supply is protected as required by State and Federal laws and regulations and compliant with California Code of Regulations, Title 17, Sections 7584 through 7650. Service of water to any premises shall be discontinued by the Water Supplier if a backflow prevention assembly required by Title 17, Sections 7584 through 7650 is not installed, tested and maintained, or if it is found that a backflow prevention assembly has been removed, bypassed, or if an unprotected cross-connection exists on the premises. Service will not be restored until such conditions or defects are corrected.

2.2.2 The consumer's system should be open for inspection at all reasonable times to authorized representatives of the Water Company to determine whether unprotected cross-connections or other structural or sanitary hazards, including violations of these regulations, exist. When such a condition becomes known, the Water Company shall deny or immediately discontinue service to the premises by providing for a physical break in the service line until the consumer has corrected the condition(s) in conformance with the State and County statutes relating to plumbing and water supplies and the regulations adopted pursuant thereto.

2.2.3 An approved backflow prevention assembly shall also be installed on each service line to a consumer's water system at or near the property line or immediately inside the building being served; but, in all cases, before the first branch line leading off the service line wherever the following conditions exist:

- a. In the case of premises having an auxiliary water supply which is not or may not be of safe bacteriological or chemical quality and which is not acceptable as an additional

source by the Water Company, the public water system shall be protected against backflow from the premises by installing an approved backflow prevention assembly in the service line commensurate with the degree of hazard.

b. In the case of premises on which any industrial fluids or any other objectionable substance is handled in such a fashion as to create an actual or potential hazard to the public water system, the public system shall be protected against backflow from the premises by installing an approved backflow prevention assembly in the service line commensurate with the degree of hazard. This shall include the handling of process waters and waters originating from the water supplier's system which have been subject to deterioration in quality.

c. In the case of premises having (1) internal cross-connections that can not be permanently corrected or protected against, or (2) intricate plumbing and piping arrangements or where entry to all portions of the premises is not readily accessible for inspection purposes, making it impracticable or impossible to ascertain whether or not dangerous cross-connections exist, the public water system shall be protected against backflow from the premises by installing an approved backflow prevention assembly in the service line.

2.2.4 The type of protective assembly required under subsections 2.2.3a, b, and c shall depend upon the degree of hazard which exists as follows:

a. In the case of any premise where there is an auxiliary water supply as stated in subsection 2.2.3.a of this section and it is not subject to any of the following rules, the public water system shall be protected by an approved air gap or an approved reduced pressure principle backflow prevention assembly.

b. In the case of any premise where there is water or substance that would be objectionable but not hazardous to health, if introduced into the public water system, the public water system shall be protected by an approved double check valve backflow prevention assembly.

c. In the case of any premise where there is any material dangerous to health, which is handled in such a fashion as to create an actual or potential hazard to the public water system, the public water system shall be protected by an approved air gap or an approved reduced pressure principle backflow prevention assembly. Examples of premises where these conditions will exist include sewage treatment plants, sewage pumping stations, chemical manufacturing plants, hospitals, and mortuaries and plating plants.

d. In the case of any premise where there are unprotected cross-connections, either actual or potential, the public water system shall be protected by an approved air gap or an approved reduced pressure principle backflow prevention assembly at the service connection.

e. In the case of any premise where, because of security requirements or other prohibitions or restrictions, it is impossible or impractical to make a complete in-plant cross-connection survey, the public water system shall be protected against backflow from the premises by either an approved air gap or an approved reduced pressure principle backflow prevention assembly on each service to the premise.

2.2.5 Any backflow prevention assembly required herein shall be a make, model and size ap-

proved by the Water Company. The term "Approved Backflow Prevention Assembly" shall mean an assembly that has been manufactured in full conformance with the standards established by the American Water Works Association entitled: AWWA/ANSI C510-2007 Standard for Double Check Valve Backflow Prevention Assemblies; AWWA/ANSI C511-2007 Standard for Reduced Pressure Principle Backflow Prevention Assemblies; and, have met completely the laboratory and field performance standard of the Foundation for Cross-Connection Control and Hydraulic Research of the University of Southern California (USC FCCCHR) established in: Standards of Backflow Prevention Assemblies Chapter 10 of the most current edition of the Manual of Cross-Connection Control. Said AWWA and USC FCCCHR standards have been adopted by the Water Company. Final approval shall be evidenced by a "Certificate of Compliance" for the said AWWA standards; or the appearance of the specific model and size on the List of Approved Backflow Prevention Assemblies published by the USC FCCCHR along with a "Certificate of Approval" for the said USC FCCCHR Standards; issued by an approved testing laboratory. The following testing laboratory has been qualified by the Water Company to test and approve backflow prevention assemblies:

Foundation for Cross-Connection Control and Hydraulic Research
University of Southern California
Los Angeles, California 90089-2531

Testing laboratories other than the laboratory listed above will be added to an approved list as they are qualified by the California State Water Resource Board.

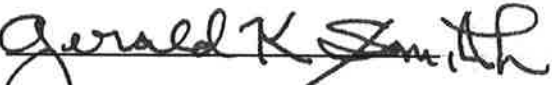
Backflow preventers, which may be subjected to backpressure or backsiphonage, that have been fully tested and have been granted a Certificate of Approval by said qualified laboratory and are listed on the laboratory's current list of approved backflow prevention assemblies may be used without further test or qualification.

2.2.6 It shall be the duty of the consumer at any premise where backflow prevention assemblies are installed to have a field test performed by a certified backflow prevention assembly tester upon installation and at least once per year. In those instances where the Water Company deems the hazard to be great enough he may require field tests at more frequent intervals. These tests shall be at the expense of the water user and shall be performed by the Water Company personnel or by a certified tester approved by the Water Company. It shall be the duty of the Water Company to see that these tests are made in a timely manner. The consumer shall notify the Water Company in advance when the tests are to be undertaken so that an official representative may witness the field tests if so desired. These assemblies shall be repaired, overhauled or replaced at the expense of the consumer whenever said assemblies are found to be defective. Records of such tests, repairs and overhaul shall be kept and made available to the Water Company

2.2.7 All presently installed backflow prevention assemblies which do not meet the requirements of this section but were approved devices for the purposes described herein at the time of installation and which have been properly maintained, shall, except for the field testing and maintenance requirements under subsection 2.2.6, be excluded from the requirements of these rules so long as the Water Company is assured that they will satisfactorily protect the water purveyor's system. Whenever the existing device is moved from the present location or requires more than minimum maintenance or when the Water Company finds that the maintenance constitutes a hazard to health, the unit shall be replaced by an approved backflow prevention assembly meeting the requirements of this section.

2.2.8 The Water Company is authorized to make all necessary and reasonable rules and policies with respect to the enforcement of this regulation. All such rules and policies shall be consistent with the provisions of this regulation and shall be effective on the date of which this document is approved by Mil Potrero Mutual Water Company Board of Directors and signed.

Date: 1/11/2020

By: 
Gerald K. Smith, Board President

Date: 1/11/2020

By: 
Robert A. Lame, Board Secretary

Date: 1/11/2020

By: 
Michael DeAngelis, Board Treasurer

Attachments:

1. MPMWC Cross-Connection Field Survey Form (Title 17, Section 7584, b)
2. MPMWC SOP Water Use Survey of New and Existing Connections
3. MPMWC Staff Training in Cross-Connection Control (Title 17, Section 7584, d)
4. MPMWC Backflow Testing Standard Operation Procedure (Title 17, Section 7584, e)
5. MPMWC Records of Backflow locations, tests, and repairs (Title 17, Section 7584, f)
6. MPMWC Periodic Test and Maintenance Compliance Letter
7. MPMWC Backflow Tester Form
8. MPMWC 1st Notice to Install Service Connection Protection (Title 17, Section 7584, c)
9. MPMWC 2nd Notice of Non-Compliance to Install Connection Protection
10. MPMWC Non-Compliance of Periodic Test and Maintenance Letter
11. MPMWC Notice of Discontinuance of Water Supply Letter
12. MPMWC Notice of Shutdown Letter
13. MPMWC Backflow Incident Report Form
14. MPMWC List of Approved Certified Testers