PUBLIC UTILITIES COMMISSION 505 VAN NESS AVENUE SAN FRANCISCO, CA 94102-3298



October 9, 2023

Tiffany Thong Manager, Rates and Regulatory Affairs Liberty Utilities (Apple Valley Ranchos Water) Corp. 21760 Ottawa Road Apple Valley, CA 92308-6533

Dear Ms. Thong,

The Water Division of the California Public Utilities Commission has approved Liberty Utilities' (Apple Valley Ranchos Water) Advice Letter No. 277, filed on August 15, 2023, regarding request to update Rule No. 16.

Enclosed are copies of the following revised tariff sheets, effective September 14, 2023, for the utility's files:

P.U.C.	
Sheet No.	Title of Sheet
1227-W	Rule No. 16 Service Connections, Meters,
	And Customer's Facilities, Sheet 1
1228-W	Rule No. 16 Service Connections, Meters,
	And Customer's Facilities, Sheet 2
1229-W	Rule No. 16 Service Connections, Meters,
	And Customer's Facilities, Sheet 3
1230-W	Rule No. 16 Service Connections, Meters,
	And Customer's Facilities, Sheet 4
1231-W	Rule No. 16 Service Connections, Meters,
	And Customer's Facilities, Sheet 5
1232-W	Rule No. 16 Service Connections, Meters,
	And Customer's Facilities, Sheet 6
1233-W	Rule No. 16 Service Connections, Meters,
	And Customer's Facilities, Sheet 7
1234-W	Rule No. 16 Service Connections, Meters,
	And Customer's Facilities, Sheet 8
1235-W	Rule No. 16 Service Connections, Meters,
	And Customer's Facilities, Sheet 9
1236-W	Rule No. 16 Service Connections, Meters,
	And Customer's Facilities, Sheet 10

	P.U.C.	
_	Sheet No.	Title of Sheet
_	1237-W	Rule No. 16 Service Connections, Meters,
		And Customer's Facilities, Sheet 11
	1238-W	Table of Contents, Sheet 1

Please contact Jim Boothe at JB5@cpuc.ca.gov or 415-703-1748, if you have any questions.

Thank you.

Enclosures

CALIFORNIA PUBLIC UTILITIES COMMISSION DIVISION OF WATER AND AUDITS

Advice Letter Cover Sheet

Liberty Utilities Utility Name: (Apple Valley Ranchos W		chos Water) Corp.	Date Mailed to Service List:	August 15, 2023		
District:	N/A					
CPUC Utility #:	U 34	6-W			Protest Deadline (20 th Day):	September 4, 2023
Advice Letter #:	277-	W			Review Deadline (30 th Day):	September 14, 2023
Tier	□1	⊠2	□3	□ Compliance	Requested Effective Date:	September 14, 2023
Authorization					Rate Impact:	N/A

Description: Liberty Apple Valley submits this advice letter to update its Rule No. 16.

The protest or response deadline for this advice letter is 20 days from the date that this advice letter was mailed to the service list. Please see the "Response or Protest" section in the advice letter for more information.

Utility Contact:	Tiffany Thong	Utility Contact:	AnnMarie Sanchez
Phone:	562.923.0711	Phone:	562.923.0711
Email:	Tiffany.Thong@libertyutilities.com	Email:	AnnMarie.Sanchez@Libertyutilities.com
DWA Contact:	Tariff Unit		
Phone:	(415) 703-1133		
Email:	Water.Division@cpuc.ca.gov		
	DWA	USE ONLY	
DATE	<u>STAFF</u>		<u>COMMENTS</u>
[] APPROVED	[]	WITHDRAWN	[] REJECTED
C ¹ are a horrow		Commonter	
		Comments:	
Date:			



Advice Letter No. 277-W

August 15, 2023

TO THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

Liberty Utilities (Apple Valley Ranchos Water) Corp. (U 346-W) ("Liberty Apple Valley") hereby submits the attached revised tariff sheets applicable to water service in its service territory.

Summary

The purpose for this advice letter is to request authorization to update Liberty Apple Valley's Rule 16 to reflect the current standards to implement its cross-connection control program ("CCCP") being driven by the California State Water Resources Control Board ("SWRCB").

Pursuant to Industry Rule 8.2 (Request for Similar Treatment) of General Order 96-B, Liberty Apple Valley is requesting similar treatment afforded to California Water Service Company ("Cal Water") in its general rate case Application (A.12-07-007), Decision (D.14-08-011), dated August 14, 2014, which granted Cal Water the authority to update its Rule 16 to reflect the current industry standards to implement its CCCP.

Background and Discussion

On May 24, 1991, the Commission approved Liberty Apple Valley (then Apple Valley Ranchos Water Company) Advice Letter 83-W to revise its Rule 16 to conform with revisions of Sections 7583-7605, Title 17 of the California Code of Regulations, which required utilities to adopt operating rules implementing a cross-connection program. Resolution W-3477 required each regulated water utility to incorporate the revisions in its tariffs.

On October 2, 2017, the Governor of California approved Assembly Bill No. 1671 ("AB 1671") amended Section 116810 of, and added Sections 11640 and 116555.5 to, the Health and Safety Code, relating to drinking water. AB 1671 is requiring the SWRCB to adopt standards for backflow protection and cross-connection control and authorizing the SWRCB to do so through the adoption of a policy handbook. Currently, the SWRCB is working on finalizing the policy handbook and is anticipated to be released in December 2023.

On August 14, 2014, in D.14-08-011, the Commission authorized Cal Water to revise its Rule 16, mainly to update terminology and references to reflect current industry standards and provide greater specificity and clarity to Cal Water's mandates, and customers' responsibilities.

Liberty Apple Valley Rule 16 is outdated and does not reflect current industry standards. Liberty Apple Valley therefore requests similar treatment afforded to Cal Water in accordance with Industry Rule 8.2 of General Order 96-B.

An excerpt of Cal Water D.14-08-11 is included as Attachment A and a copy of AB 1671 is included as Attachment B to this advice letter for reference.

The redlined version of Rule 16 is included as Attachment C to this advice letter.

Tier Designation

In accordance with General Order 96-B, Industry Rule 5.2 and Water Industry Rule 7.3.2(7), this advice letter is submitted with a Tier 2 designation.

Effective Date

In accordance with General Order 96-B, Industry Rule 5.2 and Water Industry Rule 7.3.2(7), Liberty Apple Valley requests this filing become effective on September 14, 2023.

Notice and Service

In accordance with General Order 96-B, General Rules 4.3 and 7.2, and Water Industry Rule 4.1, a copy of this advice letter will be electronically transmitted on August 15, 2023 to competing and adjacent utilities and other utilities or interested parties having requested such notification. Pursuant to Water Industry Rule 3.2 of General Order 96-B, public notice is not required.

Response or Protest

Anyone may respond to or protest this advice letter. A response supports the filing and may contain information that proves useful to the Commission in evaluating the advice letter. A protest objects to the advice letter in whole or in part and must set forth the specific grounds on which it is based. These grounds are:

- (1) The utility did not properly serve or give notice of the advice letter;
- (2) The relief requested in the advice letter would violate statute or Commission order or is not authorized by statute or Commission order upon which the utility relies;
- (3) The analysis, calculations, or data in the advice letter contain material error or omissions;
- (4) The relief requested in the advice letter is pending before the Commission in a formal proceeding;
- (5) The relief requested in the advice letter requires consideration in a formal hearing or is otherwise inappropriate for the advice letter process; or
- (6) The relief requested in the advice letter is unjust, unreasonable, or discriminatory, provided that such a protest may not be made where it would require re-litigating a prior order of the Commission.

A protest shall provide citations or proofs where available to allow staff to properly consider the protest. A response or protest must be made in writing or by electronic mail and must be received by the Division of Water within 20 days of the date this advice letter is filed. The address for mailing or delivering a protest is:

Tariff Unit, Water Division, 3rd floor California Public Utilities Commission 505 Van Ness Avenue, San Francisco, CA 94102 <u>Water.division@cpuc.ca.gov</u> On the same date the response or protest is submitted to the Water Division, the respondent or protestant shall send a copy by mail (or e-mail) to Liberty Apple Valley, addressed to:

Tiffany Thong Manager, Rates and Regulatory Affairs Liberty Utilities 9750 Washburn Road P. O. Box 7002 Downey, CA 90241 Fax: (562) 861-5902 E-Mail: Tiffany.Thong@libertyutilities.com

Cities and counties that need Board of Supervisors or Board of Commissioners approval to protest should inform the Division of Water and Audits within the 20-day protest period so that a late filed protest can be entertained. The informing document should include an estimate of the date the proposed protest might be voted on.

If you have not received a reply to your protest within 10 business days, contact Tiffany Thong at <u>Tiffany.Thong@libertyutilities.com</u>.

Sincerely,

LIBERTY UTILITIES (APPLE VALLEY RANCHOS WATER) CORP.

/s/ Tiffany Thong

Tiffany Thong Manager, Rates and Regulatory Affairs

TT/as

Attachments

Cal P.U.C. Sheet No.	Title of Sheet	Cancelling Cal P.U.C. Sheet No.
1227-W	RULE NO. 16 SERVICE CONNECTIONS, METERS, AND CUSTOMER'S FACILITIES Sheet 1	399-W
1228-W	RULE NO. 16 SERVICE CONNECTIONS, METERS, AND CUSTOMER'S FACILITIES Sheet 2	400-W
1229-W	RULE NO. 16 SERVICE CONNECTIONS, METERS, AND CUSTOMER'S FACILITIES Sheet 3	401-W
1230-W	RULE NO. 16 SERVICE CONNECTIONS, METERS, AND CUSTOMER'S FACILITIES Sheet 4	402-W
1231-W	RULE NO. 16 SERVICE CONNECTIONS, METERS, AND CUSTOMER'S FACILITIES Sheet 5	403-W
1232-W	RULE NO. 16 SERVICE CONNECTIONS, METERS, AND CUSTOMER'S FACILITIES Sheet 6	404-W
1233-W	RULE NO. 16 SERVICE CONNECTIONS, METERS, AND CUSTOMER'S FACILITIES Sheet 7	405-W
1234-W	RULE NO. 16 SERVICE CONNECTIONS, METERS, AND CUSTOMER'S FACILITIES Sheet 8	
1235-W	RULE NO. 16 SERVICE CONNECTIONS, METERS, AND CUSTOMER'S FACILITIES Sheet 9	
1236-W	RULE NO. 16 SERVICE CONNECTIONS, METERS, AND CUSTOMER'S FACILITIES Sheet 10	
1237-W	RULE NO. 16 SERVICE CONNECTIONS, METERS, AND CUSTOMER'S FACILITIES Sheet 11	

		Advice 277-W
		Cancelling
Cal P.U.C.		Cal P.U.C.
Sheet No.	Title of Sheet	Sheet No.

1238-W TABLE OF CONTENTS Sheet 1

1226-W

Attachment 1

Page 1

SERVICE CONNECTIONS, METERS, AND CUSTOMER'S FACILITIES

A. General

- 1. Utility's Responsibility
 - a. (1) In urban areas with dedicated front streets, rear service roads, or public utility easements the utility will furnish and install the service pipe, curb stop, meter and meter box at its own expense for the purpose of connecting its distribution system to the customer's piping, except for temporary services and as otherwise provided in Rule No. 15, Main Extensions. The service connection, curb stop, meter and meter box will be installed at a convenient place between the property line and the curb, or inside the customer's property line where necessary.
 - (2) In areas which do not have dedicated front streets, rear service roads, or public utility easements, the utility will furnish and install the service pipe, curb stop, meter and meter box as above provided but at a convenient point on or near the customer's property except for service beyond the service area.
 - b. The service connection will determine the point of delivery of water service to the customer.
- 2. Customer's Responsibility
 - a. Condition Precedent to Receiving Service

The customer as a condition precedent to receiving service shall:

- (1) Furnish and lay the necessary piping to make the connection from the service connection to the place of consumption and shall keep such piping in good repair in accordance with such reasonable requirements of the utility as may be incorporated in its rules herein.
- (2) Provide a main valve on the piping between the service connection and the point of customer use.
- (3) Where service is rendered at or near the service area boundary for use beyond the service area, install, operate, and maintain the facilities necessary to provide service.
- b. The customer's piping shall extend to that point on the curb line or property line of easiest access to the utility from its existing distribution system or requiring the least extension of the existing distribution main. The utility shall be consulted before installation thereof and its approval of location secured.
- 3. Ownership and Absence of Rental Obligation Where Facilities Are on Premises of Customer
 - a. The service pipe, curb stop, meter, and meter box furnished by or on behalf of the utility and located wholly or partially upon a customer's premises are the property of the utility.
 - b. No rent or other charge will be paid by the utility where the utility-owned service facilities are located on a customer's premises.

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SERVICE CONNECTIONS, METERS, AND CUSTOMER'S FACILITIES

- A. 4. Access to Premises of Customer
 - a. The utility shall at all reasonable hours have access to meters, service connections and other property owned by it which may be located on customer's premises for purposes of installation, maintenance, operation or removal of the property at the time service is to be terminated. The customer's system should be open for inspection at all reasonable times to authorized representatives of the utility.
 - b. Any inspection work or recommendations made by the utility or its agents in connection with plumbing or appliances or any use of water on the customer's premises, either as a result of a complaint or otherwise, will be made without charge.
 - 5. Responsibility for Loss or Damage
 - a. The utility will not be responsible for any loss or damage caused by any negligence or wrongful act of a customer or of a customer's authorized representatives in installing, maintaining, operating or using any or all appliances, facilities or equipment for which service is supplied.
 - b. The customer will be held responsible for damage to utility's meters and other property resulting from the use or operation of appliances and facilities on customer's premises, including, but not limited to damage caused by steam, hot water, or chemicals.
- B. Services
 - 1. Charge for Service Connections

Except as provided in subparagraphs a., b., or c. below, the utility shall make no charge to a customer for making a service connection except in case of connections for private fire protection service, connections for temporary service, changes made at the request and for the convenience of the customer, where additional connections are requested because of divisions of land ownership when the land before division was receiving service, and as otherwise provided in the utility's main extension rules.

a. Individual Customer Connection Fee

A Class C or Class D utility, or a Class A or Class B utility district or subsidiary serving 2,000 or fewer connections, may accept from individual customers amounts in contribution as a connection fee calculated pursuant to the Commission's Connection Fee Data Form contained in the utility's tariffs.

b. In lieu of paying the connection fee, an applicant for a service connection may retain a licensed contractor, qualified in the judgment of the utility, to install the service connection. Cost to the utility of inspection and supervision of the installation, including gross-up for tax required by a contribution, shall be paid by the applicant. The applicant shall provide the utility with a statement of actual construction costs in reasonable detail. The amount shall be treated as contribution by the utility. The installation shall be in accordance with plans and specifications of the utility.

(Continued)

Cancelling

Revised Cal. P.U.C. Sheet No. 1229-W Revised Cal. P.U.C. Sheet No. 401-W

RULE NO. 16

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SERVICE CONNECTIONS, METERS, AND CUSTOMER'S FACILITIES

B. 1. c. Individual Customer Facilities Fee

A Class C or Class D utility, or a Class A or Class B utility district or subsidiary serving 2,000 or fewer connections, may accept from individual customers amounts in contribution as a facilities fee calculated pursuant to tariff approved by the Commission.

- 2. Size of Service Pipe
 - a. The minimum size of service pipe installed by the utility will not be less than 1-inch nominal size.
 - b. The utility may require the customer to provide such data as may be necessary for the utility to properly size a service larger than 1-inch nominal size consistent with pressure requirements.
- 3. Installation

Only duly authorized employees or agents of the utility (or licensed contractors, upon approval of the utility) will be permitted to install a service pipe from the utility's main to the location of the service connection. The connection from the meter to the customer's piping will be made by the utility; provided, however, that if the customer's piping requires repair or replacement, the connection may, at the option of the utility, be made by the customer or his agent.

C. Cross-Connections

1. Protective Regulation

No physical connection between the potable water supply system of the public utility and that of any other water supply or source of actual or potential contamination will be permitted except in compliance with the regulations of the State Department of Public Health contained in Title 17, Sections 7583-7605 of the California Code of Regulations under "Regulations Relating to Cross-Connections."

It is unlawful for any person, firm, or corporation at any time to make or maintain or cause to be made, temporarily or permanently, for any period of time whatsoever, any cross-connection between plumbing pipes or water fixtures being served with water by the Utility and any other source of water supply or to maintain any sanitary fixture or other appurtenances or fixtures which, by reason of their construction, may cause or allow backflow of water or other substances into the water supply system of the Utility and/or the service of water pipes or fixtures of any consumer of the Utility.

2. Backflow Prevention Assemblies Required

Pursuant to general rate case decisions, and in accordance with the Commission's general supervisory policies, the utility will evaluate the degree of potential health hazard to the public water supply which may be created as a result of conditions existing on a user's premises. As a minimum, the evaluation will consider: the existence of cross-connections, auxiliary intakes, bypasses or interconnections, the nature of materials handled on the property, the probability of a backflow occurring, the degree of piping system complexity, and the potential for piping system modification. It is not the responsibility of Liberty Utilities to identify all hazards within a facility rather than the hazards sufficient for identifying appropriate service protection.

(Continued)

Issued by Edward N. Jackson PRESIDENT C.

Cancelling

Revised Cal. P.U.C. Sheet No. 1230-W Revised Cal. P.U.C. Sheet No. 402-W

RULE NO. 16

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SERVICE CONNECTIONS, METERS, AND CUSTOMER'S FACILITIES

2.	Ba	ckflow Prevention Assemblies Required (continued)	(T)
	sup pro pre pro pre res cor pre	twithstanding the above, because certain activities present inherent risks to the water oply, the utility may forego a complete evaluation and may require backflow tection based on the type of facility or nature of water use, if certain conditions are sent. The installation of a backflow prevention assembly at the potable water meter tects the public water system from potential cross-connections, but it does not event backflow within the customer's internal piping system. Liberty Utilities is not ponsible for cross-connections within the customer's internal piping system. The nditions under which Liberty Utilities will require the installation of approved backflow evention assembly(ies) of required type include, but are not limited to, those listed ow.	(N) (N) (T)
	a.	Where a fresh water supply which has not been approved by the utility is already available from a well, spring, reservoir or other source. (If the customer agrees to destroy this other supply and agrees to remove all pumps and piping necessary for the utilization of an auxiliary supply, the installation of backflow prevention assembly(ies) will not be required.)	(T)(L) (T) (T) (T)
	b.	Where salt water, or water otherwise contaminated, is available for industrial or fire protection purposes at the same premises.	
	C.	Where the premises are or may be engaged in industrial processes using or producing process waters or liquid industrial wastes, or where the premises are or may be engaged in handling sewage or any other dangerous substances.	
	d.	Where fresh water hydrants or other outlets are or may be installed on piers or docks.	
	e.	Where the circumstances are such that there is special danger of backflow of sewage or other contaminated liquids through plumbing fixtures or water-using or treating equipment, or storage tanks and reservoirs.	(T)
	f.	Where premises have internal cross-connections that are not abated to the satisfaction of the utility or the health agency.	(T)
	g.	Intricate plumbing and piping arrangements or premises where cross-connections are likely to occur and entry is restricted so that cross-connection inspections cannot be made with sufficient frequency or at sufficiently short notice to assure that cross-connections do not exist.	(T)
	h.	Premises having a repeated history of cross-connections being established or re- established.	 (L)
	i.	Premises that have more than one service connection present a loop-through hazard such that backflow protection on all service connections must be installed. Each backflow prevention assembly must be commensurate with the highest degree of hazard present, but must provide no less protection than a Double Check Valve Assembly.	(N)
	j.	Premises that have multiple users or units sharing one meter must install an RP due to the risk of occupancy change without notification to the utility.	 (N)

Cancelling

Revised Cal. P.U.C. Sheet No. 1231-W Revised Cal. P.U.C. Sheet No. 403-W

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SERVICE CONNECTIONS, METERS, AND CUSTOMER'S FACILITIES

- C. 2. Backflow Prevention Assemblies Required (continued)
 - k. Premises that store or handle materials or substances that, if introduced into the water supply, have the potential to pose a health-related or aesthetic risk to drinking water quality.
 - I. New or modified fire sprinkler systems: A backflow prevention assembly must be installed when new or modified non-residential fire sprinkler systems are installed. If potable water pipes are used to construct the sprinkler system, no chemicals are added, and there is no auxiliary supply, a Double Check Detector Assembly may be installed. If non-potable water pipes are used, or chemicals are added, or there is an auxiliary water supply, then a Reduced Pressure Principle Detector Assembly must be installed.

Residential fire sprinkler systems do not need a backflow prevention assembly if they are designed and installed using potable water piping and materials, and have connections to points of regular water use to prevent degradation of water quality. Systems that do not meet these requirements must be equipped, at a minimum, with a Double Check Valve Assembly (DC) located at the service connection. If chemical additives, on-site storage, or booster pumps are used, backflow protection must be a Reduced Pressure Principle Assembly (RP).

Where a premises is required to have an RP backflow prevention assembly installed on a metered service, a Reduced Pressure Principle Detector Assembly must also be installed on all new or modified fire service connections.

All new or modified fire systems that are being fitted with a backflow prevention assembly shall be designed by a licensed engineer at the customer's expense.

m. Temporary hydrants must be equipped with a RP device.

The water service may be discontinued in the case of non-compliance with Liberty Utilities Regulations. Non-compliance includes, but is not limited to, the following:

- a. Refusal to allow the Cross-connections Control Specialist access to the property to survey for cross-connection(s).
- b. Removal of a backflow prevention assembly or method that is required by the Utility.
- c. Bypassing of a backflow prevention assembly or method that is required by the Utility.
- d. Providing inadequate backflow prevention when potential or actual crossconnections exist.
- e. Failure to install a backflow prevention assembly or method that is required by the Utility.
- f. Failure to test and/or properly repair a backflow prevention assembly or method as required by the Utility.

Cancelling

Revised Cal. P.U.C. Sheet No. 1232-W Revised Cal. P.U.C. Sheet No. 404-W

RULE NO. 16

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SERVICE CONNECTIONS, METERS, AND CUSTOMER'S FACILITIES

- C. 3. Type and Expense of Backflow Prevention Assemblies
 - a. Any backflow prevention assembly utilized shall be of the type and design specified and approved for the circumstances in Section 7604, Title 17 of the California Code of Regulations (or its successor, and the California Plumbing Code), except that a customer may utilize an approved backflow prevention assembly providing greater protection than required by Section 7604. Such backflow prevention assembly shall be installed by and at the expense of the customer, in a manner approved by the utility and the public health agency having jurisdiction.
 (T)
 - b. Backflow prevention assemblies shall be tested, repaired or replaced at the expense of the customer.
 - c. Backflow prevention assemblies shall be installed no more than 5 feet (unless approved by the utility) to the customer's connection to the utility, prior to any tee or branch line, and in a location which that is readily available for periodic inspection.
 - d. Existing backflow prevention assemblies that are determined to provide an inadequate level of protection must be replaced by the appropriate level of protection instead of repaired. Inadequate backflow prevention assemblies must be replaced immediately, even if the existing assembly still passes the annual test, if there is an imminent health risk as determined by the utility.
 - e. A non-residential connection that has a backflow prevention assembly installed to abate an internal backflow hazard, whether at the recommendation of utility or as directed by a regulatory agency, must also install a backflow prevention assembly at the meter commensurate with the degree of hazard. The utility does not have any responsibility or authority to abate internal hazards or monitor testing of backflow prevention assemblies that are installed internal to a customer's premise.
 - f. Residential Irrigation Systems: At the discretion of the utility, properly installed Reduced Pressure Principle Assemblies (RPs), pressure vacuum breakers (PVBs), or spill resistant pressure vacuum breakers (SVBs) may be accepted as protection on residential irrigation systems in lieu of protection at the meter, when no other hazards are present, provided they are tested and maintained in accordance with Section 4.
 - g. For dedicated road median irrigation systems, PVBs and SVBs are acceptable as service protection only if they are properly installed.
 - h. No backflow prevention assemblies or methods shall be installed in a place where they would create a safety hazard such as, but not limited to, over an electrical panel or above ceiling level.
 - i. The removal, bypassing, or altering of a protective assembly or the installation, thereof so as to render an assembly ineffective, shall constitute grounds for discontinuance of water service. Water service to such premises shall not be restored until the Customer has corrected or eliminated such conditions or defects.

Cancelling

Revised Cal. P.U.C. Sheet No. 1233-W Revised Cal. P.U.C. Sheet No. 405-W

RULE NO. 16

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SERVICE CONNECTIONS, METERS, AND CUSTOMER'S FACILITIES

C.	4.	Periodic Testing of Backflow Prevention Assemblies	(L)(T)					
		Whenever a backflow prevention assembly is installed, relocated, or repaired, the customer shall have it tested by persons who are certified to test backflow prevention assemblies by either the California Nevada Section of the American Water Works Association, County of Los Angeles Public Health or the American Backflow Prevention Association.						
		Backflow prevention assemblies shall be tested at least annually or more frequently if determined to be necessary by the health agency or utility.	(Ľ)(Ť)					
		The utility shall notify the customer on record when testing of backflow prevention assemblies is needed. The notice shall give the date by which the test must be completed. The notice shall also inform the customer that, following the compliance date, the costs of all testing, repair, or replacement will be borne by the customer. In tenant-landlord situations, the utility shall not be responsible for determining the responsible party beyond notification of the customer of record.	(N)					
		Reports of testing and maintenance shall be maintained by the utility for a minimum of three years.						
		The Utility shall have the right to inspect and require testing of the assemblies whenever deemed necessary.						
		Should a protective assembly be found defective or have a status of Failed, the Utility will require the assembly to be repaired promptly with manufacturer's specified parts, in accordance to manufacturer's suggested procedure, and placed in proper operating condition within 15-days of the finding or the specified time limit established by the Utility. Following repairs, the assembly is to be tested again to verify that it is meeting performance standards and have a status of Passed. The owner will be held responsible for maintaining protective measures in a good state of repairs.						
		If the assembly cannot or will not be repaired within 3 days (72 hours) of discovery of the failure, the backflow prevention assembly tester must notify the utility of the failure in cases where the failed assembly presents an immediate risk to public health, the service will be discontinued until the repairs or replacement is completed.	(N)					
	5.	Refusal to Serve or Discontinuance of Service	(L)					
		The utility may refuse or discontinue service:						
		a. Until there has been installed on the customer's piping an approved backflow prevention assembly of the required type, if one is required.	(T)					
		 Where the utility has been denied access to the customer's premises to make an evaluation. 						
		c. Where the customer refuses or fails to install, test a backflow prevention assembly, or to repair or replace a faulty backflow prevention assembly.	(T) (T)					

(Continued)

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SERVICE CONNECTIONS, METERS, AND CUSTOMER'S FACILITIES

C.	5.	d.	Providing inadequate backflow prevention when potential or actual cross-connections exist.	(N) (N)			
		e.	Where there is a direct or indirect connection between the public water system and a sewer line.	(T)(L) 			
		f.	Where there is an unprotected direct or indirect connection between the public water system and a system or equipment containing contaminants.				
		g.	Where there is an unprotected direct or indirect connection between the public water system and auxiliary water system.				
		h.	When there is a situation which presents an immediate health hazard to the public water system.	(Ť)(Ľ) (N)			
		i.	Bypassing of a backflow prevention assembly or method that is required by the Utility.				
		j.	Removal of a backflow prevention assembly or method that is required by the Utility.				
	6.	6. Thermal Expansion					
		res	or to the installation of a backflow prevention assembly, it is the customer's ponsibility to have a qualified plumber mitigate the effects of thermal expansion. lure to do so may create a dangerous condition resulting in damage and/or injury.	(N)			
	7.	Pu	mps and Boosters	(T)(L)			
		When a customer receiving service at the utility's main or service connection must, by means of a pump of any kind, increase the pressure of the water received, the pump shall not be attached to any pipe directly connected to the utility's main or service pipe. Such pumping or boosting of pressure shall be done at the option of the utility, either:					
		a.	From a sump, cistern or storage tank which must be served through an air gap connection, or				
		b.	From a combination of an approved backflow prevention assembly plus a device approved by the water utility to prevent the booster pump from drawing the utility's system pressure below 20 psig.	(T)			
			s requirement of a pressure limiting device shall not apply to fire protection systems uipped with booster pumps.	(T) (T)			
				(D)			

(Continued)

Issued by Edward N. Jackson PRESIDENT

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SERVICE CONNECTIONS, METERS, AND CUSTOMER'S FACILITIES

C. 8. Automatic Valves

Quick closing or opening valves shall not be installed on customer's pipes which are directly attached to the utility's mains or service pipes. A customer whose operation requires the use of a quick opening or closing valve must operate such device from a tank, cistern, sump or other facility which may be served by but not directly connected with the utility's distribution mains or service pipes. This restriction does not apply to quick closing or opening valves used in connection with normal household appliances such as automatic dishwashers or washing machines.

D. Reclaimed Water Service

- 1. Construction
 - a. Material
 - (1) All on-site reclaimed water facilities must be readily distinguishable from all on-site potable water facilities.
 - (2) Reclaimed water pipes may be of PVC dyed purple (Pantone 512) with continuous lettering "CAUTION RECLAIMED WATER" applied at the factory. No other identification is required.
 - (3) All reclaimed water pipes except as specified in item 2 above, must be identified along their entire length with warning tape. The warning tape must be yellow in color, a minimum of 2 inches wide with the words "RECLAIMED WATER" printed in 1" high black letters. The lettering should be repeated continuously the full length of the tape.
 - (4) All piping from the reclaimed water system shall be installed to maintain ten (10') feet minimum horizontal separation from all potable water piping. Where reclaimed and potable water piping cross, the reclaimed water piping shall be installed below the potable water piping in a PVC class 200 pipe sleeve which extends a minimum of five (5') feet on either side of the potable water piping. Additionally, a minimum vertical clearance of six (6") inches shall be provided.
 - (5) All above ground reclaimed water facilities (risers, valves, controllers, etc.) must have identifying labels for reclaimed water.
 - b. Valve Marking

Hose bibs are not permitted on the reclaimed water system.

c. Drawings Required

Applicants for reclaimed water service shall submit system plans for review and approval by the utility.

- d. Location
 - (1) Reclaimed water facilities shall not be installed inside any structures, indoor atriums or planters.
 - (2) Drinking fountains and picnic tables shall be located to minimize exposure to direct and windblown reclaimed water spray.

(Continued)

(N)

Page 10

(N)

SERVICE CONNECTIONS, METERS, AND CUSTOMER'S FACILITIES

- D.1.d. Location (continued)
 - (3) Reclaimed water shall not be sprayed outside the design area shown in the plans submitted in Section D.1.c. above.
 - (4) Reclaimed water shall not be used to irrigate any enclosed private rear yard or patio.
 - 2. Cross Connection Control Requirements
 - a. Cross connection between the potable water system and the reclaimed water system is prohibited.
 - b. Where reclaimed water and potable water service exist on the same site the potable water system shall be protected with an approved backflow prevention assembly (reduced pressure principle assembly RP). Applicant shall pay all costs for the purchase, installation, and maintenance of backflow preventative devices. Final determination of the type of protection will be the responsibility of the water utility.
 - c. Backflow prevention devices shall not be installed on reclaimed water systems and must be removed from potable irrigation systems which are converted to reclaimed water.
 - d. Backflow prevention devices shall be tested annually or more frequently if determined to be necessary by the utility and repaired or replaced as necessary at the expense of the customer.
 - 3. Operational Requirements
 - a. The customer must appoint a Site Supervisor and provide name, title and 24-hour phone number(s) of designated Site Supervisor to the water utility. Alternate site supervisors may be appointed.
 - b. The Site Supervisor shall:
 - (1) Ensure proper installation, operation, and maintenance of the recycled water system and all backflow prevention devices on the potable water system.
 - (2) Practice diligent surveillance of the system to ensure compliance with water utility rules, the State Board's Division of Drinking Water regulations, and any local governmental requirements. Disregard for requirements could result in termination of service until the specified corrections are made.
 - (3) Educate occupants, residents, and on-site personnel on a continuous basis to ensure that reclaimed water is used in compliance with the State Board's Division of Drinking Water and any local governmental requirements.
 - (4) Post warnings that reclaimed water shall not be used for human consumption or in the preparation of food.
 - (5) Maintain the reclaimed water system to ensure its integrity and minimize failures. Broken valves, pipes, and sprinklers shall be repaired in a timely manner.
 - (6) Receive appropriate training to assure proper operation of recycling facilities, operations personnel protection, and that the reuse site meets all applicable requirements.

(N)

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SERVICE CONNECTIONS, METERS, AND CUSTOMER'S FACILITIES

- 4. Usage Guidelines
 - a. Avoid direct spray and minimize overspray on drinking fountains in areas irrigated with reclaimed water.
 - b. Adjust sprinklers to minimize reclaimed water spray on picnic tables, benches, decks, patios, sidewalks and roads.
 - c. Irrigate in a manner which will minimize ponding, and runoff. If necessary, use the "repeat" function of the irrigation controller to apply the required amount of water in several short duration cycles.
 - 5. Irrigation Time Restrictions
 - a. Irrigation in areas of human contact, parks, playgrounds, and school yards shall be during the late night/early morning hours (10:00 p.m. 6:00 a.m.). Slopes adjacent to pedestrian walkways are considered areas where there is human contact.
 - b. No time restrictions apply to irrigation areas where there is minimal human contact.
 - 6. Reporting and Inspections
 - a. The water utility shall be notified 48 hours prior to the start of construction or pipeline installation in order to schedule inspection.
 - b. The water utility shall be notified immediately of a change in Site Supervisor.
 - c. All significant changes for the reclaimed water system shall be submitted to the water utility for pre-approval.
 - d. As-built plans for the reclaimed water system including subsequent modifications shall be submitted to the water utility for approval.

(N)

(N)

Cancelling

Revised Cal. P.U.C. Sheet No. 1238-W Revised Cal. P.U.C. Sheet No. 1226-W

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CPUC Sheet No.

819-W

(T)

The following listed tariff sheets contain all effective rates and rules affecting the charges and service of the utility, together with other pertinent information:

Subject Matter of Sheet:

 Title Page
 900-W

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 (T)

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(Continued)

Attachment A
D.14-08-011

Decision 14-08-011 August 14, 2014

BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

In the Matter of the Application of California Water Service Company (U60W), a California corporation, for an order 1) authorizing it to increase rates for water service by \$92,765,000 or 19.4% in test year 2014, 2) authorizing it to increase rates on January 1, 2015 by \$17,240,000 or 3.0%, and on January 1, 2016 by \$16,950,000 or 2.9% in accordance with the Rate Case Plan, and 3) adopting other related rulings and relief necessary to implement the Commission's ratemaking policies.

Application 12-07-007 (Filed July 5, 2012)

DECISION GRANTING JOINT MOTION TO ADOPT THE PROPOSED SETTLEMENT AGREEMENT AUTHORIZING CALIFORNIA WATER SERVICE COMPANY'S GENERAL RATE INCREASES FOR 2014, 2015, AND 2016

2.9. Joint Motion to Adopt Proposed Settlement Agreement

On October 30, 2013, Cal Water, ORA, City of Carson, City of Lancaster, City of Selma, City of Visalia, County of Kern, County of Lake, Leona Valley Town Council, Residents Against Water Rates, TURN, and Jeffrey Young (Settling Parties or Parties) filed a Joint Motion to Adopt the Proposed Settlement Agreement (Joint Motion). The Proposed Settlement Agreement (Settlement or Agreement) resolved the following issues in this GRC:

- Affordability issues (Chapter 2);
- Rate design issues (Chapter 3);
- Conservation program (Chapter 4);
- Affiliate transactions and non-tariffed services (Chapter 5);
- Special requests (Chapter 6);
- Balancing and memorandum accounts (Chapter 7);
- Sales and services (Chapter 8);
- General offices expenses (Chapter 9);
- District expenses (Chapter 10);
- Taxes (Chapter 11);
- Global plant issues (Chapter 12);
- General office plant issues (Chapter 13); and
- Specific water district issues involving advance capital budget projects, carryover projects, Advise Letter (AL) projects, projects excluded from plant additions, and adjustment to recorded plant balances (Chapters 14-37).

Most settling parties were focused on negotiations in one or more of the following general areas: revenue requirement determination for a specific area; modification of LIRA and the Rate Support Fund (RSF) (collectively, "affordability" issues); and rate design (the shift in revenues recovered through the service charge versus the quantity charges). TURN also addressed certain special requests. To the extent that an issue was specifically negotiated between a subset of the parties, the Settlement identifies those parties at the beginning of the relevant section or chapter.

Because of its length, portions of the Settlement are incorporated into this decision as necessary. The entirety of the Settlement is attached as Exhibit A to this decision.

Along with the Settlement, the Parties appended the following attachments:

- Attachment 1: Summary of Earnings Comparison Tables, by district;
- Attachment 2: Rate Base Comparison Tables, by District;
- Attachment 3: Draft Modifications to Customer Service Rules (Special Request #15);
- Attachment 4: Draft Modifications to Cross-Connection Rules (Special Request #19);
- Attachment 5: Draft Preliminary Statements;
- Attachment 6: Summary of Annual Depreciation Rates;
- Attachment 7: Non-Specific Capital Budgets;
- Attachment 8: Meter Replacement Program;
- Attachment 9: Rate Base Offset AL Projects; and
- Attachment 10: Conservation Budget.

These Attachments are contained in Exhibit B to this decision. Of note is

the fact that the Settlement does not include specific rates or tariffs. Instead, as

When the last capital project in a district is nearing completion (operationally in service and closed to plant), approximately one month before an advice letter seeking recovery is filed, Cal Water will confer with ORA to alert it of the advice letter filing, and begin providing the data supporting both the incremental capital projects, capital-related costs and expenses in the memo account for the recovery requested.

6 7

S. SPECIAL REQUEST #19: CROSS-CONNECTION RULES

8 Cal Water proposed several policy changes to its cross-connection rules (in Tariff 9 Rule 16) necessary for implementing changes to its cross-connection control program 10 ("CCCP") being driven by staff of the CDPH. The modifications to Rule 16 are generally 11 intended to (1) update terminology and references to reflect current industry standards; 12 (2) provide greater specificity and clarity to Cal Water's mandates, and customers' 13 responsibilities, in order to carry out Cal Water's enforcement of its CCCP consistent 14 with the expectations of the CDPH. The proposed modifications have no direct impact 15 on either customers' rates or Cal Water's revenue requirement. ORA expressed 16 concern about the potential for the modifications to cause some customers to install 17 backflow prevention assemblies unnecessarily.

18 The Parties agree that Cal Water should be authorized to file a Tier 1 advice 19 letter to revise Rule 16 as proposed (see Attachment 4, Draft Modifications to Cross-20 Connection Rules), and that Cal Water will take certain steps going forward. Once the 21 full scale CCCP is implemented, Cal Water will begin tracking the rate of error for 22 mistakenly notifying customers that they must install a backflow prevention device, and 23 will report its findings in its next GRC. Cal Water will also provide a proposal on how it 24 may reduce the program's error rate in its next GRC. In addition, any customer notices 25 indicating that a backflow prevention assembly is required will clearly specify that the 26 customer has the option of requesting that Cal Water conduct an on-site inspection to 27 confirm the requirement before having to install the backflow prevention assembly.

Canceling <u>Revised</u> Cal. P.U.C. Sheet No. 2998-W

Rul	e N	0.1	6

SERVICE CONNECTIONS, METERS, AND CUSTOMER'S FACILITIES

A. General

- 1. Utility's Responsibility
- a. (1) In urban areas with dedicated front streets, rear service roads, or public utility easements the utility will furnish and install the service pipe, curb stop, meter and meter box at its own expense for the purpose of connecting its distribution system to the customer's piping, except for temporary services, and as otherwise provided in Rule No. 15, Main Extensions. The service connection, curb stop, meter and meter box will be installed at a convenient place between the property line and the curb, or inside the customer's property line where necessary.
 - (2) In areas which do not have dedicated front streets, rear service roads, or public utility easements the utility will furnish and install the service pipe, curb stop, meter and meter box as above-provided but at a convenient point on or near the customer's property except for service beyond the service area.
- b. The service connection will determine the point of delivery of water service to the customer.
- 2. Customer's Responsibility
- a.. Condition Precedent to Receiving Service

The customer as a condition precedent to receiving service shall:

- (1) Furnish and lay the necessary piping to make the connection from the service connection to the place of consumption and shall keep such piping in good repair in accordance with such reasonable requirements of the utility as may be incorporated in its rules herein.
- (2) Provide a main valve on the piping between the service connection and the point of customer use.
- (3) Where service is rendered at or near the service area boundary for use beyond the service area, install, operate and maintain the facilities necessary to provide service.

(Continued)

(To be inserted by utility)		Issued by		(To be inse	erted by Cal. P.U.C.)
Advice Letter No.	1129	FRANCIS S. FERRA	RO	Date Filed	<u>MAR 16 1990</u>
Decision No.		Vice President		Effective	JAN 9 1990
			TITLE	Resolution No	W 3477

Canceling Revised Cal. P.U.C. Sheet No. 2999 & 3615-W

Rule No. 16 (Continued)

SERVICE CONNECTIONS, METERS, AND CUSTOMER'S FACILITIES

- A.. 2. b. The customer's piping shall extend to that point on the curb line or property line of easiest access to the utility from its existing distribution system or requiring the least extension of the existing distribution main. The utility shall be consulted before installation thereof and its approval of location secured.
 - 3. <u>Ownership and Absence of Rental Obligation Where Facilities are On Premises of Customer</u>
 - a. The service pipe, curb stop, meter, and meter box furnished by the utility at its own expense and located wholly or partially upon a customer's premises are the property of the utility.
 - b. No rent or other charge will be paid by the utility where the utility-owned service facilities are located on a customer's premises.
 - 4. Access to Premises of Customer
 - a. The utility shall at all reasonable hours have access to meters, service connections and other property owned by it which may be located on customer's premises for purposes of installation, maintenance, operation or removal of the property at the time service is to be terminated. The customer's system should be open for inspection at the reasonable times to authorized representatives of the utility.
 - b. Any inspection work or recommendations made by the utility or its agents in connection with plumbing or appliances or any use of water on the customer's premises, either as a result of a complaint or otherwise, will be made without charge.
 - 5. Responsibility for Loss or Damage
 - a. The utility will not be responsible for any loss or damage caused by any negligence or wrongful act of a customer or a customer's authorized representatives in installing, maintaining, operating or using any or all appliances, facilities or equipment for which service is supplied.

(Continued)

(To be inserted by utility)	Issued by	(To be inserted by Cal. P.U.C.)
Advice Letter No. 1129	FRANCIS S. FERRARO	Date Filed MAR 16 1990
Decision No.	NAME <u>Vice President</u> TITLE	Effective JAN 9 1990
		Resolution No. W 3477

Rule No. 16 (Continued)

SERVICE CONNECTIONS, METERS, AND CUSTOMER'S FACILITIES

A. 5. b. The customer will be held responsible for damage to utility's meters and other property resulting from the use of operation of appliances and facilities on customer's premises, including but not limited to damage caused by steam, hot water, or chemicals.

B. <u>Services</u>

1. <u>Charge for Service Connections</u>

The utility shall make no charge to a customer for making a service connection except in case of connections for private fire protection, service, connections for temporary service, changes made at the request and for the convenience of the customer, where additional connections are requested because of divisions of land ownership when the land before the division was receiving service, and as otherwise provided in the utility's main extension rules.

2. <u>Size of Service Pipe</u>

- a. The minimum size of service pipe installed by the utility will not be less than ³/₄-inch nominal size.
- b. The utility may require the customer to provide such data as may be necessary for the utility properly to size a service larger than ³/₄-inch nominal size consistent with pressure requirements.
- 3. <u>Installation</u>

Only duly authorized employees or agents of the utility will be permitted to install and/or connect a service pipe from the utility's (T) main to the customer's service connection. (T)

(To be inserted by utility)	Issued by	(To be inserted by Cal. P.U.C.)
Advice Letter No. 2470	FRANCIS S. FERRARO	Date Filed JUN 10 1999
Decision No	Vice President	Effective <u>JUL 20 1999</u>
		Resolution No.

(continued)

RNIA WATER SERVICE COMPA th First Street, San Jose, CA 95112 -8200	NY	Canceling	Revised Revised	Cal. P.U.C. Sheet No. Cal. P.U.C. Sheet No.	10429-W 3943-W
	Rule	No. 16			
		tinued)		Sheet 4 of 9	(T)
	SERVICE CONNECTIONS, METER	S, AND CUST	OMER'S FACIL		(1)
C. Cross-Connections					
1. Protective Regula	ation				
other water supply with the regulation	ection between the potable water supply sys y or source of actual or potential contaminations ons of the State Department of Public Health Code of Regulations under "Regulations Re	tion will be per	mitted except in o itle 17, Sections	compliance	(L) (L)
	tion Assemblies Required				(T)
policies, the utilit created as a result the existence of c	al rate case decisions, and in accordance wir y will evaluate the degree of potential health t of conditions existing on a user's premises ross-connections, the nature of materials has ng, the degree of piping system complexity	h hazard to the . As a minimum ndled on the pro-	public water supp n, the evaluation operty, the proba	ply which may be will consider: bility of a	(N) (L) (L)
may forego a com nature of water us prevention assem upon request. The	the above, because certain activities present nplete evaluation and may require backflow se, if certain conditions are present. Custom bly under these circumstances will be provi- e conditions under which CWSC will require bly(ies) of required type include, but are no	protection base hers that are req ded with an inte e the installatio	d on the type of a uired to install a ernal cross conne n of approved ba	facility or backflow ction inspection	(N) (N)
Health is a destroy this	esh water supply which has not been approv lready available from a well, spring, reserve s other supply and agrees to remove all pum y supply, the installation of backflow preven	oir or other sour ops and piping r	ce. (If the custon tecessary for the	ner agrees to utilization of	(T) (T)
	water, or water otherwise contaminated, is t the same premises.	available for in	dustrial or fire pr	rotection	(L) (L)
or liquid in	premises are or may be engaged in industria idustrial wastes, or where the premises are o langerous substances.	*	• • •		(L) (L)
	sh water hydrants or other outlets are or may				(L)
	circumstances are such that there is special ted liquids through plumbing fixtures or wat reservoirs.	0	U		(L) (L)
·	mises have internal cross-connections that a ty or the health agency.	re not abated to	the satisfaction		(T) (L)
inspections	where cross-connections are likely to occur a s cannot be made with sufficient frequency of ections do not exist.	•			(L) (L)
h. Premises h	aving a repeated history of cross-connection	ns being establi	shed or re-establi	shed.	(L)
backflow p assembly n	hat have more than one service connection p protection on all service connections must be must be commensurate with the highest degr tion than a Double Check Valve Assembly.	e installed. Eacl	n backflow preve	ntion	(N) (N)
•	hat have multiple users sharing one meter m hout notification to the utility.	ust install an R	P due to the risk	of occupancy	(N) (N)
	(Con	tinued)			
(To be inserted by utility)	Issued by				(To be inserted by C
Letter No. 2139	PAUL G. TOWNSI	LEY		Date Filed	September 24,
cision No. <u>14-08-011</u>	Vice President			Effective	September 2

Vice President TITLE

Effective September 25, 2014 Resolution No. _____

IFORNIA WATER SERVICE COMPANY North First Street, San Jose, CA 95112 9 367-8200	Canceling	Revised	Cal. P.U.C. Sheet No. Cal. P.U.C. Sheet No.	10430-W 3944-W
	Rule No. 16 (Continued) TTERS_AND CUST(OMER'S FACILITIE	Sheet 5 of 9	(T)
			_	
C. 2. k. Premises that store or handle materials or subst have the potential to pose a health-related or ae		-	oply,	(N) (N)
 New or modified fire sprinkler systems: A back new or modified non-residential fire sprinkler s construct the sprinkler system, no chemicals are Check Detector Assembly may be installed. If added, or there is an auxiliary water supply, the must be installed. 	ystems are installed. e added, and there is non-potable water pi	If potable water pipe no auxiliary supply, a pes are used, or chem	es are used to a Double nicals are	(N) (N)
Residential fire sprinkler systems do not need a installed using potable water piping and materia to prevent degradation of water quality. Systen at a minimum, with a Double Check Valve Ass additives, on-site storage, or booster pumps are Principle Assembly (RP).	als, and have connect ns that do not meet th embly (DC) located	tions to points of regu- nese requirements mu at the service connect	llar water use st be equipped, tion. If chemical	(N) (N)
Where a premises is required to have an RP bac service, a Reduced Pressure Principle Detector fire service connections.	1	•		(N) (N)
All new or modified fire systems that are being designed by a licensed engineer at the customer		w prevention assemb	ly shall be	(N) (N)
3. Type and Expense of Backflow Prevention Assemblie	<u>es</u>			(T)
a. Any backflow prevention assembly utilized sha the circumstances in Section 7604, Title 17 of t the California Plumbing Code, except that a cu assembly providing greater protection than requ assembly shall be installed by and at the expense utility and the public health agency having juris	he California Code of stomer may utilize an uired by Section 760- se of the customer, in	f Regulations (or its s approved backflow 4. Such backflow pre	successor, and prevention evention	(N) (N)
b. Backflow prevention assemblies shall be tested		l at the expense of the	e customer.	(T)
 c. Backflow preventer prevention assemblies shal connection to the utility, prior to any tee or brai available for periodic inspection. 	l be installed as close	e as practical to the cu	istomer's	(N) (N)
d. Existing backflow prevention assemblies that a must be replaced by the appropriate level of pre prevention assemblies must be replaced immed test, if there is an imminent health risk as detern	otection instead of re iately, even if the ex	paired. Inadequate ba	ackflow	(N) (N)
e. A non-residential connection that has a backflo backflow hazard, whether at the recommendation also install a backflow prevention assembly at t utility does not have any responsibility or author of backflow prevention assemblies that are inst	w prevention assemb on of utility or as dire he meter commensu ority to abate internal	ected by a regulatory rate with the degree of hazards or monitor to	agency, must f hazard. The	(N) (N)
f. Residential Irrigation Systems: At the discretion Principle Assemblies (RPs), pressure vacuum b breakers (SVBs) may be accepted as protection at the meter, when no other hazards are present with Section 4.	reakers (PVBs), or s on residential irrigat provided they are te	pill resistant pressure ion systems in lieu of	vacuum f protection	(N) (N)
	(Continued)			
	ed by COWNSLEY			To be inserted by Cal. P. September 24, 20
Decision No. <u>14-08-011</u> Vice P	resident TLE			September 25, 20

RNIA WATER SERVICE COMPANY rth First Street, San Jose, CA 95112	-	Revised	Cal. P.U.C. Sheet No.	10431-W
7-8200	Canceling	Revised	Cal. P.U.C. Sheet No.	3945-W
Rule N (Contin				
SERVICE CONNECTIONS, METERS,		OMER'S FACILI	Sheet 6 of 9	(T)
C. 3. g. For dedicated road median irrigation systems, PVBs and only if they are properly installed.	d SVBs are ac	ceptable as service	e protection	(N) (N)
4. Periodic Testing of Backflow Prevention Assemblies				(T)
Whenever a backflow prevention assembly is installed, relocat by persons who are certified to test backflow prevention assem of the American Water Works Association or the American Ba	blies by eithe	r the California No	evada Section	(N) (N)
Backflow prevention assemblies shall be tested at least annuall necessary by the health agency or utility.	ly or more fre	quently if determin	ned to be	(T) (L)
The utility shall notify the customer on record when testing of The notice shall give the date by which the test must be complet that, following the compliance date, the utility may have all un or replaced. The costs of all testing, repair, or replacement wil add such costs to the customer's water bill. In tenant-landlord s determining the responsible party beyond notification of the cu	eted. The not atested assemb Il be borne by situations, the	ice shall also infor blies tested and, if the customer, and utility shall not be	m the customer needed, repaired the utility may	(T) (N) (N)
Reports of testing and maintenance shall be maintained by the a backflow prevention assembly is found to have failed, it mus or a replacement assembly is available, but in no event later tha after testing, whichever comes first. If the assembly cannot or of the failure, the backflow prevention assembly tester must no the failed assembly presents an immediate risk to public health repairs or replacement is completed.	tbe repaired of an the testing will not be rep otify the utility	r replaced as soon compliance date, o paired within 3 day of the failure In c	as repair parts or 20 days ys of discovery ases where	(N) (N)
5. Refusal to Serve or Discontinuance of Service				
The utility may refuse or discontinue service:				
a. Until there has been installed on the customer's piping a of the required type, if one is required.	an approved b	ackflow prevention	n assembly	(T) (L)
b. Where the utility has been denied access to the customer	r's premises t	o make an evaluati	on.	(L)
c. Where the customer refuses to test a backflow preventio backflow prevention assembly.	on assembly, o	or to repair or repla	ace a faulty	(T) (T)
d. Where there is a direct or indirect connection between the	he public wate	er system and a sev	wer line.	(L)
 e. Where there is an unprotected direct or indirect connecti system or equipment containing contaminants. 	ion between t	he public water sys	stem and a	(L) (L)
 f. Where there is an unprotected direct or indirect connecti auxiliary water system. 	ion between t	he public water sys	stem and	(L) (L)
g. When there is a situation which presents an immediate h	nealth hazard	to the public water	system.	(L)
6. <u>Thermal Expansion</u>				(N)
Prior to the installation of a backflow prevention assembly, it is plumber mitigate the effects of thermal expansion. Failure to c in damage and/or injury.			-	(N) (N)
(Contin	nued)			
(To be inserted by utility) Issued by				(To be inserted by C

PAUL G. TOWNSLEY NAME Vice President TITLE

Date Filed September 24, 2014 Effective September 25, 2014 Resolution No. _____

RNIA WATER SERVICE			Revised	Cal. P.U.C. Sheet No.	1043
7-8200		Canceling	Revised	Cal. P.U.C. Sheet No.	394
		Rule No. 16			
		(Continued)		01 . 7 . 6 0	
	SERVICE CONNECTIONS, ME	TERS, AND CUSTO	DMER'S FACILIT	Sheet 7 of 9	(T)
C. 7. Pumps and	Boosters				
	stomer receiving service at the utility's ma				(L)
	ncrease the pressure of the water received, to the utility's main or service pipe. Such p				
at the optic	n of the utility, either:				(L)
a. Fror	n a sump, cistern or storage tank which mu	st be served through	an air gap connec	tion, or	(L)
	n a combination of an approved backflow j				(T)
the	vater utility to prevent the booster pump fr	om drawing the utili	ty's system pressu	re below 20 psig.	(L)
					(D)
	requirement of a pressure limiting device	shall not apply to fir	e protection system	ns equipped	(N)
with	booster pumps.				(N)
8. Automatic	Valves				
	ing or opening valves shall not be installed				(L)
	s mains or service pipes. A customer whose valve must operate such device from a tank				(T) (L)
	but not directly connected with the utility's				(L) (T)
does not ap	opply to quick closing or opening valves use omatic dishwashers or washing machines.				(L)
D. Reclaimed Wa	ter Service				
1. Construction	<u>on</u>				
a. Mate	erial				
(1)	All on-site reclaimed water facilities mus water facilities.	t be readily distingui	shable from all on	-site potable	(L)
(2)	Reclaimed water pipes may be of PVC dy				(N)
	"CAUTION RECLAIMED WATER" a required.	applied at the factory	v. No other identif	ication is	(L)
(3)	All reclaimed water pipes except as speci				(L)
	entire length with warning tape. The warn 2 inches wide with the words "RECLAI				
	The lettering should be repeated continuo			ck 101015.	(L)
(4)	All piping from the reclaimed water syste				(L)
	horizontal separation from all potable was		•		
	cross, the reclaimed water piping shall be class 200 pipe sleeve which extends a min				
	water piping. Additionally, a minimum ve				(L)
(5)	All above ground reclaimed water faciliti labels for reclaimed water.	es (risers, valves, co	ntrollers, etc.) mus	t have identifying	(L) (L)
					(-)
		(Continued)			
		()			

(To be inserted by utility)
Advice Letter No. 2139

Decision No. <u>14-08-011</u>

Issued by <u>PAUL G. TOWNSLEY</u> NAME <u>Vice President</u> TITLE (To be inserted by Cal. P.U.C.)
Date Filed <u>September 24, 2014</u>
Effective <u>September 25, 2014</u>
Resolution No. <u>-</u>

RNIA WATER SERVICE COMPANY th First Street, San Jose, CA 95112	_	Revised	Cal. P.U.C. Sheet No.	10433-W
-8200	Canceling	Revised	Cal. P.U.C. Sheet No.	4637-W
	Rule No. 16 (Continued)			
SERVICE CONNECTION	S, METERS, AND CUSTO	MER'S FACILIT	Sheet 8 of 9 IES	(1)
N				
D. 1. b. Valve Marking	1			
Hose bibs are not permitted on the reclaim	ied water system.			
c. Drawings Required	11 1 1 1 1 1		11 .1 .11.	
Applicants for reclaimed water service sha d. Location	all submit system plans for i	review and approve	al by the utility.	(T)
(1) Reclaimed water facilities shall not l	a installed inside any struc	tures indoor striur	ns or planters	(L)
(1) Reclamice water facilities shall not a(2) Drinking fountains and picnic tables blown reclaimed water spray.	•			(L) (L) (L)
(3) Reclaimed water shall not be sprayer in Section D.1.c. above.	d outside the design area sh	own in the plans su	ubmitted	(L) (L)
(4) Reclaimed water shall not be used to	irrigate any enclosed priva	te rear yard or pati	0.	(L)
	<u> </u>	, ,		
2. <u>Cross Connection Control Requirements</u>				
a. Cross connection between the potable wat	•	• •		(L)
 b. Where reclaimed water and potable water shall be protected for backflow preventior 				(L) (T)
approved backflow prevention assembly ((N)
pay all costs for the purchase, installation,				(L)
determination of the type of protection wi with the Department of Public Health.	ll be the responsibility of th	e water utility in co	onjunction	(T) (T)
c. Backflow prevention devices shall not be	installed on reclaimed wate	r systems and mus	t he	(L)
removed from potable irrigation systems v				(L) (L)
d. Backflow prevention devices shall be teste at the expense of the customer.	ed as required and repaired	or replaced as nece	essary	(L) (L)
3. Operational Requirements				
a. The customer must appoint a Site Supervi	sor and provide name, title	and 24-hour phone	e number(s)	(L)
of designated Site Supervisor to the water	utility. Alternate site super	visors may be app	ointed.	(T)
b. The Site Supervisor shall:				
(1) Practice diligent surveillance of the s	•			(T)
California Department of Public Hea				(L)
Disregard for requirements could res are made.	suit in termination of service	e until the specified	a corrections	(L) (L)
(2) Educate occupants, residents, and or	site personnel on a continu	ous basis to insure	e that	(L)
reclaimed water is used in compliane and any local governmental requirem	ce with the California Depa			(T) (L)
(3) Post warnings that reclaimed water s preparation of food.	hall not be used for human	consumption or in	the	(L) (L)
	(Continued)			
(To be inserted by utility)	Issued by		T)	o be inserted by Cal

Advice Letter No. 2139 Decision No. <u>14-08-011</u> PAUL G. TOWNSLEY NAME <u>Vice President</u> TITLE (To be inserted by Cal. P.U.C.)
Date Filed September 24, 2014
Effective September 25, 2014
Resolution No. -

RNIA WATER SERVICE COMPANY rth First Street, San Jose, CA 95112 7-8200	Revised Canceling Revised		.C. Sheet No. 10434-W .C. Sheet No. 4638-W
	No. 16 (itinued)		
SERVICE CONNECTIONS, METER	,		neet 9 of 9 (T)
D. 3. b. (4) Maintain the reclaimed water system to insure its pipes, and sprinklers shall be repaired in a timely		ures. Broken valves	s, (L) (L)
(5) Notify the water utility annually by January 31 th Reclaimed Water have been met.	hat all the requirements in R	ule 16 Section D	(T) (L)
4. Usage Guidelines			
a. Avoid direct spray and minimize overspray on drinking	g fountains in areas irrigated	d with reclaimed wat	ter. (L)
b. Adjust sprinklers to minimize reclaimed water spray or and roads.	n picnic tables, benches, dec	cks, patios, sidewalk	cs (L) (L)
c. Irrigate in a manner which will minimize ponding, and of the irrigation controller to apply the required amoun	2	1	(L) (L)
5. Irrigation Time Restrictions			
a. Irrigation in areas of human contact, parks, playground	ds, and school yards shall be	during the late	(L)
night/early morning hours $(10:00 \text{ p.m.} - 6:00 \text{ a.m.})$. Sle are considered areas where there is human contact.	opes adjacent to pedestrian v	walkways	(L) (L)
b. No time restrictions apply to irrigation areas where the	ere is minimal human contac	t.	(L) (L)
6. Reporting and Inspections			
a. The water utility shall be notified 48 hours prior to the in order to schedule inspection.	start of construction or pipe	line installation	(T) (L)
b. The water utility shall be notified immediately of a cha	ange in Site Supervisor.		(T)
 c. All significant changes for the reclaimed water system pre-approval. 	shall be submitted to the wa	ater utlity for	(T) (L)
d. As-built plans for the reclaimed water system including the water utility for approval.	g subsequent modifications	shall be submitted to	o (L) (T)
(To be inserted by utility) Issued by			(To be inserted by C
(To be inserted by utility) Issued by e Letter No. 2139 PAUL G. TOWNSI NAME	LEY		(To be inserted by C Date Filed <u>September 24</u> ,

Attachment B Assembly Bill 1671



Assembly Bill No. 1671

CHAPTER 533

An act to amend Section 116810 of, and to add Sections 116407 and 116555.5 to, the Health and Safety Code, relating to drinking water.

[Approved by Governor October 6, 2017. Filed with Secretary of State October 6, 2017.]

LEGISLATIVE COUNSEL'S DIGEST

AB 1671, Caballero. Backflow protection and cross-connection controls: standards.

(1) Existing law, the California Safe Drinking Water Act, requires the State Water Resources Control Board to administer provisions relating to the regulation of drinking water to protect public health, including, but not limited to, conducting research, studies, and demonstration projects relating to the provision of a dependable, safe supply of drinking water, enforcing the federal Safe Drinking Water Act, adopting regulations, and conducting studies and investigations to assess the quality of private domestic water wells. Existing law makes certain violations of the act a misdemeanor.

Existing law requires any person who owns a public water system to ensure that the system does certain things, including, but not limited to, that it will not be subject to backflow under normal operating conditions. Existing law, to ensure that testing and maintenance of backflow prevention devices are performed by persons qualified to do testing and maintenance, authorizes local health officers to maintain programs for certification of backflow prevention device testers and requires the certification program to be consistent with backflow protection regulations adopted by the state board. A violation of these provisions, or an order by a local health officer pursuant to these provisions, is a misdemeanor.

This bill would require a public water system to implement a cross-connection control program that complies with, and would require the certification program to be consistent with, applicable regulations and the standards described in (2).

(2) Existing regulations establish standards for a backflow prevention device and cross-connection control.

This bill, on or before January 1, 2020, would require the state board to adopt standards for backflow protection and cross-connection control and would authorize the state board to do so through the adoption of a policy handbook, as specified. By authorizing the state board to adopt standards, the violation of which would be a crime, the bill would create a new crime and impose a state-mandated local program.

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(3) The California Constitution requires the state to reimburse local agencies and school districts for certain costs mandated by the state. Statutory provisions establish procedures for making that reimbursement.

This bill would provide that no reimbursement is required by this act for a specified reason.

The people of the State of California do enact as follows:

SECTION 1. Section 116407 is added to the Health and Safety Code, to read:

116407. (a) On or before January 1, 2020, the state board shall adopt standards for backflow protection and cross-connection control.

(b) The state board may implement subdivision (a) through the adoption of a policy handbook that is not subject to the requirements of Chapter 3.5 (commencing with Section 11340) of Part 1 of Division 3 of Title 2 of the Government Code. The policy handbook shall include standards for backflow protection and cross-connection control. In developing the standards and any amendments to those standards, the state board shall consult with state and local agencies and other persons whom the state board has identified as having expertise in the subject of backflow protection and cross-connection control. The state board shall hold at least two public hearings before adopting the policy handbook. The policy handbook shall be posted on the board's Internet Web site.

(c) (1) Upon the effective date of a policy handbook adopted by the state board pursuant to subdivision (b), the regulations set forth in Article 1 (commencing with Section 7583) and Article 2 (commencing with Section 7601) of Group 4 of Subchapter 1 of Chapter 5 of Division 1 of Title 17 of the California Code of Regulations shall become inoperative, and, 90 days thereafter, are repealed, unless the state board makes a determination not to repeal a specific regulation.

(2) If the state board determines not to repeal a specific regulation pursuant to paragraph (1), the state board shall provide to the Office of Administrative Law and the Secretary of State written notice of its determination, including identification of the specific regulation that is not repealed. That regulation, upon the provision of that written notice to the Office of Administrative Law and the Secretary of State, shall become operative.

SEC. 2. Section 116555.5 is added to the Health and Safety Code, to read:

116555.5. A public water system shall implement a cross-connection control program that complies with applicable regulations and with standards adopted by the board pursuant to Section 116407.

SEC. 3. Section 116810 of the Health and Safety Code is amended to read:

116810. To ensure that testing and maintenance of backflow prevention devices are performed by persons qualified to do testing and maintenance,

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local health officers may maintain programs for certification of backflow prevention device testers. The local health officer may suspend, revoke, or refuse to renew the certificate of a tester, if, after a hearing before the local health officer or his or her designee, the local health officer or his or her designee finds that the tester has practiced fraud or deception or has displayed gross negligence or misconduct in the performance of his or her duties as a certified backflow prevention device tester. The local health officer may collect fees from certified testers to offset the cost of the certification program provided pursuant to this section. The certification standards shall be consistent with standards adopted by the state board pursuant to Section 116407 and any other applicable backflow protection regulations.

SEC. 4. No reimbursement is required by this act pursuant to Section 6 of Article XIII B of the California Constitution because the only costs that may be incurred by a local agency or school district will be incurred because this act creates a new crime or infraction, eliminates a crime or infraction, or changes the penalty for a crime or infraction, within the meaning of Section 17556 of the Government Code, or changes the definition of a crime within the meaning of Section 6 of Article XIII B of the California Constitution.

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Attachment C Rule No. 16 Redlined

LIBERTY UTILITIES				
(APPLE VALLEY RANCHOS WATER) CORP.		REVISED	Cal. P.U.C. Sheet No.	1227-W
21760 OTTAWA ROAD				
P. O. BOX 7005	Canceling	REVISED	Cal. P.U.C. Sheet No.	399-W
APPLE VALLEY, CALIFORNIA 92307-7005	-			

Page 1

(L)

SERVICE CONNECTIONS, METERS, AND CUSTOMER'S FACILITIES

A. General

- 1. Utility's Responsibility
 - a. (1) In urban areas with dedicated front streets, rear service roads, or public utility easements the utility will furnish and install the service pipe, curb stop, meter and meter box at its own expense for the purpose of connecting its distribution system to the customer's piping, except for temporary services and as otherwise provided in Rule No. 15, Main Extensions. The service connection, curb stop, meter and meter box will be installed at a convenient place between the property line and the curb, or inside the customer's property line where necessary.
 - (2) In areas which do not have dedicated front streets, rear service roads, or public utility easements, the utility will furnish and install the service pipe, curb stop, meter and meter box as above provided but at a convenient point on or near the customer's property except for service beyond the service area.
 - b. The service connection will determine the point of delivery of water service to the customer.
- 2. Customer's Responsibility
 - a. Condition Precedent to Receiving Service

The customer as a condition precedent to receiving service shall:

- (1) Furnish and lay the necessary piping to make the connection from the service connection to the place of consumption and shall keep such piping in good repair in accordance with such reasonable requirements of the utility as may be incorporated in its rules herein.
- (2) Provide a main valve on the piping between the service connection and the point of customer use.
- (3) Where service is rendered at or near the service area boundary for use beyond the service area, install, operate, and maintain the facilities necessary to provide service.
- b. The customer's piping shall extend to that point on the curb line or property line of easiest access to the utility from its existing distribution system or requiring the least extension of the existing distribution main. The utility shall be consulted before installation thereof and its approval of location secured.
- 3. Ownership and Absence of Rental Obligation Where Facilities Are on Premises of Customer
 - a. The service pipe, curb stop, meter, and meter box furnished by or on behalf of the utility, and located wholly or partially upon a customer's premises are the property of the utility.
 - b. No rent or other charge will be paid by the utility where the utility-owned service facilities are located on a customer's premises.

(To be inserted by utility) Issued By (To be inserted by Cal. P.U.C.) Advice No. 277-W Edward N. Jackson Name Date Filed Dec. No. PRESIDENT Title Effective

LIBERTY UTILITIES				
(APPLE VALLEY RANCHOS WATER) CORP.		REVISED	Cal. P.U.C. Sheet No.	1228-W
21760 OTTAWA ROAD				
P. O. BOX 7005	Canceling	REVISED	Cal. P.U.C. Sheet No.	400-W
APPLE VALLEY, CALIFORNIA 92307-7005	C C			

SERVICE CONNECTIONS, METERS, AND CUSTOMER'S FACILITIES

- A. 4. Access to Premises of Customer
 - a. The utility shall at all reasonable hours have access to meters, service connections and other property owned by it which may be located on customer's premises for purposes of installation, maintenance, operation or removal of the property at the time service is to be terminated. The customer's system should be open for inspection at all reasonable times to authorized representatives of the utility.
 - b. Any inspection work or recommendations made by the utility or its agents in connection with plumbing or appliances or any use of water on the customer's premises, either as a result of a complaint or otherwise, will be made without charge.
 - 5. Responsibility for Loss or Damage
 - a. The utility will not be responsible for any loss or damage caused by any negligence or wrongful act of a customer or of a customer's authorized representatives in installing, maintaining, operating or using any or all appliances, facilities or equipment for which service is supplied.
 - b. The customer will be held responsible for damage to utility's meters and other property resulting from the use or operation of appliances and facilities on customer's premises, including, but not limited to damage caused by steam, hot water, or chemicals.
- B. Services
 - 1. Charge for Service Connections

Except as provided in subparagraphs a., b., or c. below, the utility shall make no charge to a customer for making a service connection except in case of connections for private fire protection service, connections for temporary service, changes made at the request and for the convenience of the customer, where additional connections are requested because of divisions of land ownership when the land before division was receiving service, and as otherwise provided in the utility's main extension rules.

a. Individual Customer Connection Fee

A Class C or Class D utility, or a Class A or Class B utility district or subsidiary serving 2,000 or fewer connections, may accept from individual customers amounts in contribution as a connection fee calculated pursuant to the Commission's Connection Fee Data Form contained in the utility's tariffs.

b. In lieu of paying the connection fee, an applicant for a service connection may retain a licensed contractor, qualified in the judgment of the utility, to install the service connection. Cost to the utility of inspection and supervision of the installation, including gross-up for tax required by a contribution, shall be paid by the applicant. The applicant shall provide the utility with a statement of actual construction costs in reasonable detail. The amount shall be treated as contribution by the utility. The installation shall be in accordance with plans and specifications of the utility.

(To be inserted b	y utility)	Issued By	(To l	be inserted by Cal. P.U.C.)
Advice No.	277-W	Edward N. Jackson	Date Filed	
		Name	Effective	
Dec. No.		PRESIDENT		
		Title	Resolution No.	

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LIBERTY UTILITIES				
(APPLE VALLEY RANCHOS WATER) CORP.		REVISED	Cal. P.U.C. Sheet No.	1229-W
21760 OTTAWA ROAD				
P. O. BOX 7005	Canceling	REVISED	Cal. P.U.C. Sheet No.	401-W
APPLE VALLEY, CALIFORNIA 92307-7005	C C			

Page 3

SERVICE CONNECTIONS, METERS, AND CUSTOMER'S FACILITIES

B. 1. c. Individual Customer Facilities Fee

A Class C or Class D utility, or a Class A or Class B utility district or subsidiary serving 2,000 or fewer connections, may accept from individual customers amounts in contribution as a facilities fee calculated pursuant to tariff approved by the Commission.

	2.	Size of Service Pipe	(L)
		a. The minimum size of service pipe installed by the utility will not be less than <u>3/41</u> -inch nominal size.	(Т)
		b. The utility may require the customer to provide such data as may be necessary for the utility to properly size a service larger than 3/41-inch nominal size consistent with pressure requirements.	(Т)
	3.	Installation	
		Only duly authorized employees or agents of the utility (or <u>licensed</u> contractors, upon approval of the utility) will be permitted to install a service pipe from the utility's main to the location of the service connection. The connection from the meter to the customer's piping will be made by the utility; provided, however, that if the customer's piping requires repair or replacement, the connection may, at the option of the utility, be made by the customer or his agent.	(Т)
C.	Cro	ss-Connections	
	1.	Protective Regulation	
		No physical connection between the potable water supply system of the public utility and that of any other water supply or source of actual or potential contamination will be permitted except in compliance with the regulations of the State Department of Public Health contained in Title 17, Sections 7583-7605 of the California Code of Regulations under "Regulations Relating to Cross-Connections."	
		It is unlawful for any person, firm, or corporation at any time to make or maintain or cause to be made, temporarily or permanently, for any period of time whatsoever, any cross-connection between plumbing pipes or water fixtures being served with water by the Utility and any other source of water supply or to maintain any sanitary fixture or other appurtenances or fixtures which, by reason of their construction, may cause or allow backflow of water or other substances into the water supply system of the Utility and/or the service of water pipes or fixtures of any consumer of the Utility.	(N)
	2		. ,
	2.	Backflow Prevention Assemblies Preventers Required	(T)
		Pursuant to general rate case decisions, and in accordance with the Commission's general supervisory policies, the The utility will evaluate the degree of potential health hazard to the public water supply which may be created as <u>a</u> result of conditions existing on a user's premises. As a minimum, the evaluation will consider: the existence of cross-connections, <u>auxiliary intakes</u> , <u>bypasses or interconnections</u> , the nature of materials handled on the property, the probability of a backflow occurring, the degree of piping system complexity, and the potential for piping system	(T) (T)
		modification. It is not the responsibility of Liberty Utilities to identify all hazards within a facility rather	(T)
		than the hazards sufficient for identifying appropriate service protection.	(L)(T)

		(Continued)		
(To be inserted	by utility)	Issued By	(To be inserted	by Cal. P.U.C.)
Advice No.	277-W	Edward N. Jackson	Date Filed	
		Name	Effective	
Dec. No.		PRESIDENT		
		Title	Resolution No.	

LIBERTY UTILITIES				
(APPLE VALLEY RANCHOS WATER) CORP.		REVISED	Cal. P.U.C. Sheet No.	1230-W
21760 OTTAWA ROAD				
P. O. BOX 7005	Canceling	REVISED	Cal. P.U.C. Sheet No.	402-W
APPLE VALLEY, CALIFORNIA 92307-7005	C C			

			SERVICE CONNECTIONS, METERS, AND CUSTOMER'S FACILITIES	Page 4
C.	2.	Ba	ckflow <u>Prevention Assemblies</u> Preventers Required (continued)	(L)(T)
		<u>util</u> fac pre cro Lib The	twithstanding the above, because certain activities present inherent risks to the water supply, the ity may forego a complete evaluation and may require backflow protection based on the type of ility or nature of water use, if certain conditions are present. The installation of a backflow evention assembly at the potable water meter protects the public water system from potential ass-connections, but it does not prevent backflow within the customer's internal piping system. erty Utilities is not responsible for cross-connections within the customer's internal piping system. e conditions under which Liberty Utilities will require the installation of approved backflow evention assembly(ies) of required type include, but are not limited to, those listed below.	
	C.		he utility will require the installation of approved backflow preventers of required type under any o following conditions:	f– (T) (T)
		a.	Where a fresh water supply which has not been approved by the <u>utilityState Department of</u> Health Services is already available from a well, spring, reservoir or other source. (If the customer agrees to <u>destroyabandon</u> this other supply and agrees to remove all pumps and pipin necessary for the utilization of <u>an auxiliary</u> this supply, the installation of backflow <u>prevention</u> <u>assembly(ies)</u> preventers will not be required.)	g (T) (T)
		b.	Where salt water, or water otherwise contaminated, is available for industrial or fire protection purposes at the same premises.	
		C.	Where the premises are or may be engaged in industrial processes using or producing process waters or liquid industrial wastes, or where the premises are or may be engaged in handling sewage or any other dangerous substances.	
		d.	Where fresh water hydrants or other outlets are or may be installed on piers or docks.	
		e.	Where the circumstances are such that there is special danger of backflow of sewage or other contaminated liquids through plumbing fixtures or water-fusing or treating equipment, or storage tanks and reservoirs.	
		f.	Where premises f. Premises that have internal cross-connections that are not abated to the satisfaction of the utility or the health agency.	(T)
		g.	Intricate plumbing and piping arrangements or premises. Premises where cross-connections are likely to occur and entry is restricted so that cross-connection inspections cannot be made with sufficient frequency or at sufficiently short notice to assure that cross-connections do not exist.	(Т)
		h.	Premises having a repeated history of cross-connections being established or re-established. $_$	(L)
		<u>i.</u>	Premises that have more than one service connection present a loop-through hazard such that backflow protection on all service connections must be installed. Each backflow prevention assembly must be commensurate with the highest degree of hazard present, but must provide no less protection than a Double Check Valve Assembly.	(N)
		j.	Premises that have multiple users or units sharing one meter must install an RP due to the risk of occupancy change without notification to the utility.	 (N)

(To be inserted I	by utility)	Issued By	(To b	e inserted by Cal. P.U.C.)
Advice No.	277-W	Edward N. Jackson	Date Filed	
		Name		
			Effective	
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		Title	Resolution No.	

LIBERTY UTILITIES				
(APPLE VALLEY RANCHOS WATER) CORP.		REVISED	Cal. P.U.C. Sheet No.	1231-W
21760 OTTAWA ROAD				
P. O. BOX 7005	Canceling	REVISED	Cal. P.U.C. Sheet No.	403-W
APPLE VALLEY, CALIFORNIA 92307-7005				

Rule No. 16 Page 5 SERVICE CONNECTIONS, METERS, AND CUSTOMER'S FACILITIES C. 2. Backflow Prevention Assemblies Preventers Required (continued) **(T)** k. Premises that store or handle materials or substances that, if introduced into the water supply, (N) have the potential to pose a health-related or aesthetic risk to drinking water guality. New or modified fire sprinkler systems: A backflow prevention assembly must be installed when new or modified non-residential fire sprinkler systems are installed. If potable water pipes are used to construct the sprinkler system, no chemicals are added, and there is no auxiliary supply, a Double Check Detector Assembly may be installed. If non-potable water pipes are used, or chemicals are added, or there is an auxiliary water supply, then a Reduced Pressure Principle Detector Assembly must be installed. m. Temporary hydrants must be equipped with a RP device. Residential fire sprinkler systems do not need a backflow prevention assembly if they are designed and installed using potable water piping and materials, and have connections to points of regular water use to prevent degradation of water quality. Systems that do not meet these requirements must be equipped, at a minimum, with a Double Check Valve Assembly (DC) located at the service connection. If chemical additives, on-site storage, or booster pumps are used, backflow protection must be a Reduced Pressure Principle Assembly (RP). Where a premises is required to have an RP backflow prevention assembly installed on a metered service, a Reduced Pressure Principle Detector Assembly must also be installed on all new or modified fire service connections. All new or modified fire systems that are being fitted with a backflow prevention assembly shall be designed by a licensed engineer at the customer's expense. The water service may be discontinued in the case of non-compliance with Liberty Utilities Regulations. Non-compliance includes, but is not limited to, the following: a. Refusal to allow the Cross-connections Control Specialist access to the property to survey for cross-connection(s). b. Removal of a backflow prevention assembly or method that is required by the Utility. c. Bypassing of a backflow prevention assembly or method that is required by the Utility. d. Providing inadequate backflow prevention when potential or actual cross-connections exist. e. Failure to install a backflow prevention assembly or method that is required by the Utility. f. Failure to test and/or properly repair a backflow prevention assembly or method as required by

(N)

 (To be inserted by utility)
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 (To be inserted by Cal. P.U.C.)

 Advice No.
 277-W
 Edward N. Jackson Name
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 PRESIDENT Title
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the Utility.

		REVISED	Cal. P.U.C. Sheet No.	1000 \\/
(APPLE VALLEY RANCHOS WATER) CORP.		REVISED	Cal. P.U.C. Sheet No.	1232-00
21760 OTTAWA ROAD				
P. O. BOX 7005	Canceling	REVISED	Cal. P.U.C. Sheet No.	404-W
APPLE VALLEY, CALIFORNIA 92307-7005				

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C.	3.	Ту	pe and Expense of Backflow <u>Prevention Assemblies</u> Preventers	(T)
		<u>a.</u>	Any backflow prevention assembly preventer utilized shall be of the type and design specified and approved for the circumstances in Section 7604, Title 17 of the California Code of Regulations (or its successor, and the California Plumbing Code), except that a customer may utilize an approved backflow prevention assembly preventer providing greater protection than required by Section 7604. Such backflow prevention assembly preventers shall be installed by and at the expense of the customer, in a manner approved by the utility and the public health agency having jurisdiction. Backflow preventers shall be installed as close as practical to the customer's connection to the utility and in a location which is readily available for periodic	(T) (T) (T) (T)
			inspection.	(T)
		<u>b.</u>	_Backflow prevention assemblies preventers shall be tested, repaired or replaced at the expense of the customer.	e (T)
		<u>C.</u>	Backflow prevention assemblies shall be installed no more than 5 feet (unless approved by the utility) to the customer's connection to the utility, prior to any tee or branch line, and in a location which that is readily available for periodic inspection.	
		<u>d.</u>	Existing backflow prevention assemblies that are determined to provide an inadequate level of protection must be replaced by the appropriate level of protection instead of repaired. Inadequate backflow prevention assemblies must be replaced immediately, even if the existing assembly strates the annual test, if there is an imminent health risk as determined by the utility.	
		<u>e.</u>	A non-residential connection that has a backflow prevention assembly installed to abate an internal backflow hazard, whether at the recommendation of utility or as directed by a regulator agency, must also install a backflow prevention assembly at the meter commensurate with the degree of hazard. The utility does not have any responsibility or authority to abate internal hazards or monitor testing of backflow prevention assemblies that are installed internal to a customer's premise.	Y
		<u>f.</u>	Residential Irrigation Systems: At the discretion of the utility, properly installed Reduced Pressue Principle Assemblies (RPs), pressure vacuum breakers (PVBs), or spill resistant pressure vacuum breakers (SVBs) may be accepted as protection on residential irrigation systems in lieu of protection at the meter, when no other hazards are present, provided they are tested and maintained in accordance with Section 4.	
		<u>g.</u>	For dedicated road median irrigation systems, PVBs and SVBs are acceptable as service protection only if they are properly installed.	
		<u>h.</u>	No backflow prevention assemblies or methods shall be installed in a place where they would create a safety hazard such as, but not limited to, over an electrical panel or above ceiling level	<u>.</u>
		<u>i.</u>	The removal, bypassing, or altering of a protective assembly or the installation, thereof so as to render an assembly ineffective, shall constitute grounds for discontinuance of water service. Water service to such premises shall not be restored until the Customer has corrected or eliminated such conditions or defects.	(N)

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LIBERTY UTILITIES				
(APPLE VALLEY RANCHOS WATER) CORP.		REVISED	Cal. P.U.C. Sheet No.	1233-W
21760 OTTAWA ROAD				
P. O. BOX 7005	Canceling	REVISED	Cal. P.U.C. Sheet No.	405-W
APPLE VALLEY, CALIFORNIA 92307-7005				

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C.	4.	Periodic Testing of Backflow PreventersPrevention Assemblies	(L)(T)
		Whenever a backflow <u>prevention assembly preventer</u> is installed, relocated, or repaired, the customer shall have it tested by persons who <u>are certified to test backflow prevention assemblies</u> by either the California Nevada Section of the American Water Works Association, County of Los Angeles Public Health or the American Backflow Prevention Association.	(T)
		Backflow prevention assemblies have demonstrated their competency in testing of these preventers to the utility or health agency. Backflow preventers shall be tested at least annually or more frequently if determined to be necessary by the health agency or utility. The utility shall notify the customer when testing of backflow preventers is needed. The notice shall give the date when the te must be completed. Reports of testing and maintenance shall be maintained by the utility for a minimum of three years.	st (T)
		The utility shall notify the customer on record when testing of backflow prevention assemblies is needed. The notice shall give the date by which the test must be completed. The notice shall also inform the customer that, following the compliance date, the costs of all testing, repair, or replacement will be borne by the customer. In tenant-landlord situations, the utility shall not be responsible for determining the responsible party beyond notification of the customer of record.	(N)
		Reports of testing and maintenance shall be maintained by the utility for a minimum of three years.	
		The Utility shall have the right to inspect and require testing of the assemblies whenever deemed necessary.	
		Should a protective assembly be found defective or have a status of Failed, the Utility will require the assembly to be repaired promptly with manufacturer's specified parts, in accordance to manufacturer's suggested procedure, and placed in proper operating condition within 15-days of the finding or the specified time limit established by the Utility. Following repairs, the assembly is to be tested again to verify that it is meeting performance standards and have a status of Passed. The owner will be held responsible for maintaining protective measures in a good state of repairs.	-
		If the assembly cannot or will not be repaired within 3 days (72 hours) of discovery of the failure, the backflow prevention assembly tester must notify the utility of the failure in cases where the failed assembly presents an immediate risk to public health, the service will be discontinued until the repairs or replacement is completed.	<u>!</u>
	5.	Refusal to Serve or Discontinuance of Service	(L)
		The utility may refuse or discontinue service:	
		 Until there has been installed on the customer's piping an approved backflow <u>prevention</u> <u>assemblypreventer</u> of the required type, if one is required. 	(T) (T)
		b. Where the utility has been denied access to the customer's premises to make an evaluation.	
		c. Where the customer refuses <u>or fails</u> to <u>install</u> , test a backflow <u>prevention assembly</u> <u>preventer</u> , or to repair or replace a faulty backflow <u>prevention assembly</u> . <u>preventer</u> .	(T) (T)

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ORIGINAL

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Cal. P.U.C. Sheet No.

	Rule No. 16			
		Pa <u>SERVICE CONNECTIONS, METERS, AND CUSTOMER'S FACILITIES</u>	age 8	
C.	5.	d. <u>Providing inadequate backflow prevention when potential or actual cross-connections exist.</u> (L)(N)	
		eWhere there is a direct or indirect connection between the public water system and a sewer line.	(T)	
		<u>fe.</u> Where there is an unprotected direct or indirect connection between the public water system and a system or equipment containing contaminants.		
		gf . Where there is an unprotected direct or indirect connection between the public water system and auxiliary water system.		
		<u>hg</u> . When there is a situation which presents an immediate health hazard to the public water system.	(T)	
		i. Bypassing of a backflow prevention assembly or method that is required by the Utility.	(N)	
		j. Removal of a backflow prevention assembly or method that is required by the Utility.		
	6.	Thermal Expansion		
		Prior to the installation of a backflow prevention assembly, it is the customer's responsibility to have a qualified plumber mitigate the effects of thermal expansion. Failure to do so may create a dangerous condition resulting in damage and/or injury.	(N)	
	<u>7.</u>	_Pumps and Boosters	(L)(N)	
		When a customer receiving service at the utility's main or service connection must, by means of a pump of any kind, increase the pressure of the water received, the pump shall not be attached to any pipe directly connected to the utility's main or service pipe. Such pumping or boosting of pressure shall be done, at the option of the utility, either:		
		a. From a sump, cistern or storage tank which must be served through an air gap connection, or		
		b. From a combination of an approved backflow preventer prevention assembly plus a device approved by the water utility to prevent the booster pump from drawing the utility's system pressure below 20 psig.	(T)	
		This requirement of a pressure limiting device shall not apply to <u>American Water Works Association</u> (AWWA) Class 2 Fire Protection systems, except as provided for in the Information Bulletin issued by the Office of State Fire Marshal on December 10, 1984.	(T)	
		AWWA Class 2-fire protection systems equipped with have direct connections from public water mains only; no pumps, tanks or reservoirs, except that booster pumps.	<mark>∍</mark> (T)	
		AWWA Class 2 fire protection systems have direct connections from public water mains only; no pumps, tanks or reservoirs, except that booster pumps may be installed in the connections from the street mains to the fire protection systems; no physical connection from other water supplies; no antifreeze or other additives of any kind; all sprinkler drains discharging to atmosphere, dry wells,	(D) 	
		or other safe outlets.	(D)	

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C. <u>8. Automatic Valves</u>

Quick closing or opening valves shall not be installed on customer's pipes which are directly attached to the utility's mains or service pipes. A customer whose operation requires the use of a quick opening or closing valve must operate such device from a tank, cistern, sump or other facility which may be served by but not directly connected with the utility's distribution mains or service pipes. This restriction does not apply to quick closing or opening valves used in connection with normal household appliances such as automatic dishwashers or washing machines.

- D. Reclaimed Water Service
 - 1. Construction
 - a. <u>Material</u>
 - (1) <u>All on-site reclaimed water facilities must be readily distinguishable from all on-site potable</u> water facilities.
 - (2) Reclaimed water pipes may be of PVC dyed purple (Pantone 512) with continuous lettering **"CAUTION RECLAIMED WATER"** applied at the factory. No other identification is required.
 - (3) All reclaimed water pipes except as specified in item 2 above, must be identified along their entire length with warning tape. The warning tape must be yellow in color, a minimum of 2 inches wide with the words "**RECLAIMED WATER**" printed in 1" high black letters. The lettering should be repeated continuously the full length of the tape.
 - (4) All piping from the reclaimed water system shall be installed to maintain ten (10') feet minimum horizontal separation from all potable water piping. Where reclaimed and potable water piping cross, the reclaimed water piping shall be installed below the potable water piping in a PVC class 200 pipe sleeve which extends a minimum of five (5') feet on either side of the potable water piping. Additionally, a minimum vertical clearance of six (6") inches shall be provided.
 - (5) All above ground reclaimed water facilities (risers, valves, controllers, etc.) must have identifying labels for reclaimed water.
 - b. Valve Marking

Hose bibs are not permitted on the reclaimed water system.

- c. Drawings Required
- Applicants for reclaimed water service shall submit system plans for review and approval by the utility.
- d. Location
 - (1) Reclaimed water facilities shall not be installed inside any structures, indoor atriums or planters.
 - (2) Drinking fountains and picnic tables shall be located to minimize exposure to direct and windblown reclaimed water spray.

(N)

(Continued)

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1.d.	Lo	cation (continued)	(N)
		(3) Reclaimed water shall not be sprayed outside the design area shown in the plans submitted in Section D.1.c. above.	
		(4) Reclaimed water shall not be used to irrigate any enclosed private rear yard or patio.	
<u>2.</u>	Cro	oss Connection Control Requirements	
	а.	Cross connection between the potable water system and the reclaimed water system is prohibited.	
	b.	Where reclaimed water and potable water service exist on the same site the potable water syste be protected with an approved backflow prevention assembly (reduced pressure principle assem RP). Applicant shall pay all costs for the purchase, installation, and maintenance of backflow preventative devices. Final determination of the type of protection will be the responsibility of the water utility.	
	C.	Backflow prevention devices shall not be installed on reclaimed water systems and must be removed from potable irrigation systems which are converted to reclaimed water.	
	d.	Backflow prevention devices shall be tested annually or more frequently if determined to be necessary by the utility and repaired or replaced as necessary at the expense of the customer.	
<u>3.</u>	Ор	perational Requirements	
	<u>a.</u>	The customer must appoint a Site Supervisor and provide name, title and 24-hour phone number(s) of designated Site Supervisor to the water utility. Alternate site supervisors may be appointed.	
	b.	The Site Supervisor shall:	
		(1) Ensure proper installation, operation, and maintenance of the recycled water system and all backflow prevention devices on the potable water system.	
		(2) Practice diligent surveillance of the system to ensure compliance with water utility rules, the State Board's Division of Drinking Water regulations, and any local governmental requirements. Disregard for requirements could result in termination of service until the specified corrections are made.	
		(3) Educate occupants, residents, and on-site personnel on a continuous basis to insure that reclaimed water is used in compliance with the State Board's Division of Drinking Water and any local governmental requirements.	
		(4) Post warnings that reclaimed water shall not be used for human consumption or in the preparation of food.	
		(5) Maintain the reclaimed water system to ensure its integrity and minimize failures. Broken valves, pipes, and sprinklers shall be repaired in a timely manner.	
		(6) Receive appropriate training to assure proper operation of recycling facilities, operations personnel protection, and that the reuse site meets all applicable requirements.	 (N)

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<u>4.</u>	Us	age Guidelines	(N)
	а.	Avoid direct spray and minimize overspray on drinking fountains in areas irrigated with reclaimed water.	
	b.	Adjust sprinklers to minimize reclaimed water spray on picnic tables, benches, decks, patios, sidewalks and roads.	
	C.	Irrigate in a manner which will minimize ponding, and runoff. If necessary, use the "repeat" function of the irrigation controller to apply the required amount of water in several short duration cycles.	<u>1</u>
<u>5.</u>	Irrig	gation Time Restrictions	
	а.	Irrigation in areas of human contact, parks, playgrounds, and school yards shall be during the late night/early morning hours (10:00 p.m. – 6:00 a.m.). Slopes adjacent to pedestrian walkways are considered areas where there is human contact.	
	b.	No time restrictions apply to irrigation areas where there is minimal human contact.	
<u>6.</u>	Re	porting and Inspections	
	a.	The water utility shall be notified 48 hours prior to the start of construction or pipeline installation in order to schedule inspection.	L
	b.	The water utility shall be notified immediately of a change in Site Supervisor.	
	C.	All significant changes for the reclaimed water system shall be submitted to the water utility for pre-approval.	
	<u>d.</u>	As-built plans for the reclaimed water system including subsequent modifications shall be submitted to the water utility for approval.	 (N)

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