

Rule No. 16

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.

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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. 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 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.

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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. Services

1. Charge for Service Connections

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. Size of Service Pipe

- 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. Installation

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

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Rule No. 16  
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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." (N)  
(N)  
(T)  
(T)

2. Backflow Preventers Required (T)

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, 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. (N)  
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|  
|  
|  
|  
(N)

The utility will require the installation of approved backflow preventer of required type under any of the following conditions: (T)

- a. Where a fresh water supply which has not been approved by the State Department of Health Services is already available from a well, spring, reservoir or other source. (If the customer agrees to abandon this other supply and agrees to remove all pups and piping necessary for the utilization of this supply, the installation of backflow preventers will not be required.) (T)  
(T)
- b. Where salt water, or water otherwise contaminated, is available for industrial or fire protection purposes at the same premises. (T)

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Rule No. 16  
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- C. 2. 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.
- f. Premises that have internal cross-connections that are not abated to the satisfaction of the utility or the health agency. (N)
- g. 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. (N)
- h. Premises having a repeated history of cross-connections being established or re-established. (N)
3. Type and Expense of Backflow Preventers (T)
- Any backflow 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, except that a customer may utilize an approved backflow preventer providing greater protection than required by Section 7604. Such backflow 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. (T)
- Backflow preventer 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 inspection. (N)
- Backflow preventers shall be tested, repaired or replaced at the expense of the customer. (N)

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C. 4. Periodic Testing of Backflow Preventers (T)

Whenever a backflow preventer is installed, relocated, or repaired the customer shall have it tested by persons who 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 test must be completed. Reports of testing and maintenance shall be maintained by the utility for a minimum of three years. (D) (N)

5. Refusal to Serve or Discontinuance of Service (D)

The utility may refuse or discontinue service: (D)

a. Until there has been installed on the customer's piping an approved backflow preventer of the required type, if one is required. (T)

b. Where the utility has been denied access to the customer's premises to make an evaluation. (N)

c. Where the customer refuses to test a backflow preventer, or to repair or replace a faulty backflow preventer.

d. Where there is a direct or indirect connection between the public water system and a sewer line.

e. Where there is an unprotected direct or indirect connection between the public water system and a system or equipment containing contaminants.

f. Where there is an unprotected direct or indirect connection between the public water system and auxiliary water system.

g. When there is a situation which presents an immediate health hazard to the public water system. (N)

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C. 6. Pumps and Boosters

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:

(N)  
(N)

a. From a sump, cistern or storage tank which must be served through an air gap connection, or

(T)  
(T)

b. From a combination of an approved backflow preventer plus a device approved by the water utility to prevent the booster pump from drawing the utility's system pressure below 20 psig.

(N)

This requirement shall not apply to American Water Works Association (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.

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, or other safe outlets.

(N)

7. Automatic Valves

(T)

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.

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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 violet 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" 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

Hosebibs are not permitted on the reclaimed water system.

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Rule No. 16  
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D. 1. c. Drawings Required

Applicants for reclaimed water service shall submit system plans for review and approval by California Water Service Company.

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 wind blown reclaimed water spray.
- (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 system shall be protected for backflow prevention with a California Department of Health Services approved reduced pressure principle device (RPPD). 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 California Water Service Company in conjunction with the Department of Health Services.
- 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 as required and repaired or replaced as necessary at the expense of the customer.

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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 California Water Service Company. Alternate site supervisors may be appointed.
- b. The Site Supervisor shall:
  - (1) Practice diligent surveillance of the system to insure compliance with California Water Service Company rules, the California Department of Health Services regulations, and any local governmental requirements. Disregard for these requirements could result in termination of service until the specified corrections are made.
  - (2) Educate occupants, residents, and on-site personnel on a continuous basis to insure that reclaimed water is used in compliance with the California Department of Health Services regulations and any local governmental requirements.
  - (3) Post warnings that reclaimed water shall not be used for human consumption or in the preparation of food.
  - (4) Maintain the reclaimed water system to insure its integrity and minimize failures. Broken valves, pipes, and sprinklers shall be repaired in a timely manner.
  - (5) Notify California Water Service Company annually by January 31 that all the requirements in Rule 16 Section D Reclaimed Water have been met.

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.

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- D. 4. 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. California Water Service Company shall be notified 48 hours prior to the start of construction or pipeline installation in order to schedule inspection.
- b. California Water Service Company shall be notified immediately of a change in Site Supervisor.
- c. All significant changes for the reclaimed water system shall be submitted to California Water Service Company for pre-approval.
- d. As-built plans for the reclaimed water system including subsequent modifications shall be submitted to California Water Service Company for approval.

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