Legislative Code Updates to Implement New Water Capacity Fees

Agenda Item F.1.

January 9, 2024

Purpose

- The District's capacity and connection fees for water were adopted at the December board meeting, including an ordinance to revise Chapter 7.16 "Water Meter Fees"
- Updates to Chapter 7.16 included changing from an EDU based system to a meter equivalent based system
- In order to implement the capacity fees, Chapters 7.28 and 7.76 need to be updated to change from EDUs to meter equivalents

7.28 Definitions

- EDU definition removed
- New Retail Water Service removed – was only used in one section related to need for landscape meters. Clear in the affected section without a definition

In addition to the definitions, the following conditions apply to this chapter:

A. Water service ~~and EDUs are~~is considered to go with the parcel and not with the Customer~~customer~~.

~~B. Credits for EDUs as used in this chapter apply to treated water service only.~~

~~C~~B. The determination of ~~EDUs~~meter size for single-family residential parcels and multi-family residential parcels does not consider the size of the dwelling unit because there is no conclusive evidence of a correlation between square footage of the dwelling unit and the water demand. However, the number of fixtures is considered.

7.28 & 7.76 Flowcharts Removed

- These will be moved to a reference on the Engineering page
- Not needed in the code

7.28 Meter Sizing

- EDU criteria removed

3. Multi-family~~Family~~, commercial, industrial, and irrigation~~Commercial, Industrial, and Irrigation~~ water meter sizing shall be based on the following:

   i. For the fixture units portion of flow, the meter size shall be based on intermittent flow limitation.

   ii. For the commercial, industrial, process water, and irrigation flows the meter shall be sized based on continuous flow limitation.

   iii. For meters that provide water for fixture units and for any combination of commercial, industrial, process water and irrigation water the meter shall be the greater of the size determined in “i” or “ii” or the meter size based on the summation of the flows in “i” and “ii” using the intermittent flow limitation.

   iv. For meter sizes greater than 3-inches, the District Engineer shall determine the continuous flow and intermittent flow allowed per meter based on the proposed meter manufacturer and model.

Meter Size Table

Meter Size*	Continuous Flow	Intermittent Flow
¾ inch	15 gpm	30 gpm
1 inch	25 gpm	50 gpm
1 ½ inches	50 gpm	100 gpm
2 inches	80 gpm	160 gpm
3 inches	175 gpm	350 gpm

*Flow limits for 3/4 to 1 ½ inch meters are based on the safe maximum operating capacity for multijet meters per AWWA Standard C708-11. Flow limits for 2- and 3-inch meters are based on the safe maximum operating capacity for ultrasonic type I meters per AWWA Standard C715-18.

7.28.090 Meters Exceeding Flow

- Pre-2005 criteria does not apply. EDUs were first adopted in 2005
- How to handle excessive flow? See VCMWD example (next slide)

Section 7.28.090 Meter Modification Due to Exceeding Meter ~~EDUs or~~ Flow.

~~A. This section applies to all new water services effective 5/10/2005 but shall not be applied to water services established prior to 5/10/2005 unless the owner makes application for new or changed water service.~~

A~~B~~. If during any calendar year the actual water use~~EDUs~~ and/or Average Annual Daily (ADD) flow of a metered water service exceeds the water use~~EDUs~~ and/or ADD flow projected in the latest Application for Water Service and would require an upsized water meter, the District shall require the Owner~~owner~~ execute an Application for Water Service and pay the additional fees and charges associated with the increase in water meter size per Section 7.28.080~~in EDUs~~.

B~~C~~. If the actual flows through a meter exceed the flows listed under Section 7.28.030-B.3 or cause physical damage to the meter or result in erroneous readings, the District shall require that the Owner~~owner~~ increase the meter size to avoid future damage to the meter.

C~~D~~. The cost to increase meter size and water service lateral (if required) shall be paid by the Owner in accordance with Section 7.28.080 above.

E. Until the meter can be upsized, the District may opt to install an orifice plate in the Customer's meter box to restrict the parcel's flow below the AWWA recommended maximum flow. Orifice plates required to reduce Customer's water demand below the maximum allowed shall be billed on a time and material basis and collected on the Customer's water bill.

Example from Valley Center MWD

Sec. 160.11 Excessive Flow Through Meter Services. When flows exceed the manufacturer's suggested maximums through customer's meters, inaccurate readings and meter breakage may occur. To reduce this flow, orifice plates may be inserted when and where needed. Orifice plates required to reduce customer's water demand below the maximum allowed for the meter installation shall be billed on a time and material basis and collected on the customer's water bill.

Options for tonight:

1. Adopt as is and bring back changes next month
2. Adopt 7.76 as is and 7.28 as is, except 7.28.090. Bring 7.28.090 back for consideration at Feb board meeting.
3. Adopt 7.76 and 7.28 but replace 7.28.090 with the paragraph above