

CITY OF VENICE

CROSS-CONNECTION CONTROL PROGRAM

PROPOSED CHANGES

Presented by:

Javier Vargas, Utilities Director

March 27, 2018

Background

- Purpose – to protect customers of public water providers, the EPA Safe Drinking Water Act, Florida Department of Environmental Protection [FDEP], Department of Health [DOH] require all sites with potential cross-connections be equipped with a backflow prevention device based on the degree of hazard.
- Mandated, unfunded program by State.
- A cross-connection is “any actual or potential physical connection between a drinking water line and any pipe, vessel or machine containing non-potable fluid, solid or gas.”
- Backflow preventer assemblies are devices designed to prevent water from flowing back into and contaminating the public water system.

Background

- There are three areas of our program, with protection of the City's water system from potential contaminants:

Residential Backflow Program – approx. 9000 devices

Commercial Backflow Program – approx. 700 devices

City Maintained Backflow Program – approx. 100 devices

- All devices must be maintained in accordance to applicable regulations:

Commercial must be tested once per year



Some residential must be tested once every two years

Other residential devices must be replaced every 10 years


New Approach

- In light of recent feedback received from Council and customers, the Utilities Department is working on proposed changes to the City Cross-Connection Control Program.
- Applicable to existing backflow devices (testing, repairs & replacement).
- The proposed plan will be customer friendly, proactive and cost effective.
- A “Worry-Free” Program for our residents.
- Proposed changes will not affect Fire Sprinkler Systems.


Dual Check Valve

Customer Category	Typical Installation
<p data-bbox="150 748 633 905">Residential & On Site Reclaimed Water or Well Irrigation System</p> <p data-bbox="181 976 602 1019">Approx. 5500 devices</p>	 

Double Check Backflow

Customer Category	Typical Installation
<p>Residential – 5 or more floors in height</p> <p>Approx. 350 devices</p>	

Reduced Pressure Backflow

Customer Category	Typical Installation
<p data-bbox="233 662 672 762">Commercial/Industrial Approx. 900 devices</p> <p data-bbox="160 833 749 1048">Residential with surface water (lake, pond) or potable water irrigation system. Approx. 3200 devices</p>	

Surrounding Utility Systems

- North Port – Reviewing their CCCP [residential only]
- COS – Customer's responsibility
- Sarasota County - Customer's responsibility
- Charlotte County - Customer's responsibility
- Manatee County - Customer's responsibility
- Englewood Water District - Customer's responsibility

Recommendation & Estimated Cost

- Prepare requests for bid to secure these services on a large scale basis.
- It is anticipated that this will significantly reduce the individual costs for installation, repair, and testing.
- Present a 5-year program to the Stakeholders' Work Group.
- Include cost into the Utilities Rate Study.
- Estimated Cost = \$300,000/year.
- Effective October 1, 2018.

QUESTIONS

Recommended Action

Authorize staff to revise existing ordinance for 1st and 2nd readings by City Council at the earliest possible dates, and to implement proposed plan