Hillsboro – Cherry Grove

41-00985

RESOLUTION NO. 193-W

A RESOLUTION PURSUANT TO CHAPTER XXIV, SECTION 255 OF THE AMENDED CHARTER OF THE CITY OF HILLSBORO ESTABLISHING STANDARD BUSINESS PRACTICES FOR THE PROVISION AND MAINTENANCE OF INDUSTRIAL AND COMMERCIAL CUSTOMER BACKFLOW PROTECTION, AND REPEALING ANY RESOLUTIONS OR PARTS OF RESOLUTIONS IN CONFLICT HEREWITH.

WHEREAS, Chapter XXIV, Section 255 of the Amended Charter of the City of Hillsboro authorizes the Utilities Commission to make any regulations necessary and convenient for the conduct of its business, and

WHEREAS, the need to protect against risks to public health from contamination of the Utilities Commission's water distribution system due to backflow and cross connection events at industrial or commercial meters requires clear standards for the types of backflow protection equipment to be installed at such meters and establishment of enforcement mechanisms for the proper operation and maintenance of such equipment,

NOW, THEREFORE BE IT RESOLVED BY THE UTILITIES COMMISSION OF THE CITY OF HILLSBORO that, improvement projects at existing metered sites shall meet the following backflow protection requirements:

1. Existing double check valve assemblies (DCVA's) on metered service lines will not be required to upgrade to a reduced pressure backflow assembly (RPBA) during site improvement projects if all of the following conditions are met:
    a. New federal, state, or local regulations do not eliminate the decisional authority of the local water provider.
    b. The use of the site has not changed since the original installation date of the DCVA and the classified hazard level is still the same.
    c. The detector meter on all fire service lines entering the site shows less than 10 CCF of undocumented flow volume over the life of the apparatus.
    d. The site facility engineer provides a detailed cross connection program which clearly shows how these physical safeguards and best management practices on the complicated on-site plumbing system eliminates any possibility of accidental cross connection and meets yearly with the Water Department Engineering Staff to provide updates to the plan.

2. If the detector meter on any fire service line entering the site shows more than 10 CCF of undocumented flow volume over the life of the apparatus, the Water Department will allow the Owner 60 days to eliminate all undocumented flow going through the fire service line.

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3. If undocumented flow continues to go through any fire service line entering the site after the 60-day corrective period or if undocumented flows recommence at a later date, the site will automatically be designated as a high likelihood of cross connection vulnerability and the Owner will be required to immediately:

    a. Install a RPBA on all domestic metered service lines entering the site, and
    b. Install a RPBA on all fire service lines entering the site, and
    c. Install a full size flow meter with low flow bypass on all fire service lines entering the site so usage can be accounted for and billed. Meters shall be Underwriter Laboratory / Factory Mutual (UL/FM) approved and Automated Meter Reading (AMR) ready.

4. Financial penalties will be assessed to the Owner for each day the system is out of compliance beyond the initial 60-day corrective period. The per day penalty rate shall be equal to one percent (1.0%) of the customer's annual water bill.

BE IT FURTHER RESOLVED that improvement projects at new metered sites shall meet the following backflow protection requirements:

1. All new industrial/commercial developments will require a RPBA on the domestic service. All domestic services shall have an AMR meter installed to record flow.
2. All new industrial developments will require a RPBA and meter on the fire service. Meters shall be Underwriter Laboratory / Factory Mutual (UL/FM) approved and AMR ready. Meters shall also have a low flow bypass.
3. All new large campus commercial developments will require a RPBA and meter on the fire service. Meters shall be Underwriter Laboratory / Factory Mutual (UL/FM) approved and AMR ready. Meters shall also have a low flow bypass.
4. All new small campus commercial developments will require a RPBA with detector meter on the fire service. Detector meters shall be AMR ready.

BE IT FURTHER RESOLVED that the Water Department will operate a program for general active inspection of existing industrial and commercial premise isolation systems, consistent with the following requirements:

1. All backflow detector meters will be replaced by the Department with an AMR detector meter to account for corrections of past defects in an existing on-site fire system and to allow for monthly monitoring of the devices.
2. All industrial/commercial customers will be notified their detector meter was replaced and set to 0 CCF. The Department will also inform the industrial/commercial customers that the new AMR system will give them the ability to remotely monitor their fire line usage. The industrial/commercial customer will need to work with the selected AMR vendor to acquire the needed instrumentation to allow this self monitoring.
3. All industrial/commercial customers will be instructed that during the periodic maintenance of their on-site fire system, detector meter readings must be logged by the Owner at the beginning and end of each maintenance session. The

maintenance usage shall be faxed monthly to the Water Department. Documented line maintenance flows will not be counted toward the allowable undocumented 10 CCF limit.

4. All non-emergency consumptive usage (maintenance, leakage, etc.) through the fire line will be billed to the customer.
5. If the reading on any new fire service detector entering the site shows more than 10 CCF of undocumented flow volume over the life of the apparatus, the Department will implement the corrective actions described above under Improvement Projects at Existing Sites (Paragraphs 2-4).
6. If the maintenance activity on a large private industrial/commercial fire system makes it impractical for the Owner to monitor and report their allowed maintenance usage, the Owner will be responsible to implement the corrective actions described under Improvement Projects at Existing Sites (Paragraphs 2-4). However, the timeframe for this application will be 120 days instead of the 60 days allotted for corrective measures.

BE IT FURTHER RESOLVED that all previous resolutions or parts of resolutions in conflict herewith are hereby repealed.

Passed by the Utilities Commission of the City of Hillsboro this 15th day of August 2006.

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Chairman