[Plumbing Code - Cross-Connection Controls]

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Ordinance amending the Plumbing Code to delete the local amendment to the
California Plumbing Code referring to the San Francisco Public Utilities Commission's
Rules and Regulations in the section on cross-connection control, and to add local
cross-connection controls for beverage dispensers and industrial water chillers and a
testing requirement for backflow prevention assemblies or devices; affirming the
Planning Department's determination under the California Environmental Quality Act;
and directing the Clerk of the Board of Supervisors to forward this Ordinance to the
California Building Standards Commission upon final passage.

NOTE: Unchanged Code text and uncodified text are in plain Arial font.

Additions to Codes are in single-underline italics Times New Roman font.

Deletions to Codes are in strikethrough italics Times New Roman font.

Board amendment additions are in double-underlined Arial font.

Board amendment deletions are in strikethrough Arial font.

Asterisks (\* \* \* \*) indicate the omission of unchanged Code subsections or parts of tables.

Be it ordained by the People of the City and County of San Francisco: Section 1. Findings.

- (a) The Planning Department has determined that the actions contemplated in this ordinance comply with the California Environmental Quality Act (California Public Resources Code Sections 21000 et seq.). Said determination is on file with the Clerk of the Board of Supervisors in File No. 180969 and is incorporated herein by reference. The Board affirms this determination.
- (b) On August 21, 2019, the Building Inspection Commission considered this modified ordinance at a duly noticed public hearing pursuant to Charter Section D3.750-5.

(c)	No findings are required for this ordinance Findings under Section 17958.7 of
the California	Health and Safety Code because the ordinance deletes a local amendment to
the California	Plumbing Code. are reasonably necessary due to San Francisco's topography

- (i) San Francisco has numerous tall buildings, among the tallest in California. The failure of a backflow preventer has a greater potential to allow backflow into the public water system because of higher pressures generated in tall buildings and/or where a building is elevated well above the street-level service connection. Requiring the installation of only backflow preventers that have passed field evaluation tests mitigates against the higher risk of failure due to San Francisco's topography.
- (ii) Carbonated beverage dispensers with upstream copper pipe pose a risk of health hazard from leached copper in the event of backpressure. ASSE 1022 devices are not testable and therefore cannot undergo testing to assure proper function, as do the vast majority of backflow preventers in San Francisco. Because of the higher consequences of failure due to local topography, as described in (i) above, ASSE 1022 devices are inappropriate for use in San Francisco in systems with upstream copper pipe.

Section 2. Section 603.0 of the Plumbing Code is hereby amended by <u>revising</u>

<u>Sections 603.2, 603.5.12, adding Section 603.4.22 and</u> deleting Section 603.3, as follows: **SEC. 603.0 – CROSS-CONNECTION CONTROL** 

Revise Table 603.2 as follows:

Add a footnote for the Applicable Standards heading that states:

All backflow prevention assemblies or devices that are testable must have passed laboratory and field evaluation tests performed by a recognized testing organization.

Revise the tenth entry in the Table to read as follows:

Backflow preventer for Carbonated Beverage Dispensers (two independent check valves with a vent to the atmosphere)	ASSE 1022	X		X		Installation includes carbonated beverage machines or dispensers. These devices operate under intermittent or continuous pressure conditions. This device is only permitted in systems with no upstream copper pipe. Otherwise, a reduced pressure principle backflow prevention assembly is required.
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603.3 Add a new second paragraph to this section as follows:

Refer to SFPUC's Rules & Regs Section "A and/or G Cross connection Control", Table 1 and Table 603.2 of the CPC. The more stringent shall apply.

## Revise Section 603.5.12 as follows:

603.5.12 Beverage Dispensers. Potable water supply to beverage dispensers, carbonated beverage dispensers, or coffee machines shall be protected by an air gap, a reduced pressure principle backflow prevention assembly, or a vented backflow preventer that complies with ASSE 1022, except that a vented backflow preventer may not be used to protect carbonated beverage dispensers in systems with upstream copper pipe. For carbonated beverage dispensers, piping material installed downstream of the backflow preventer shall not be affected by carbon dioxide gas.

21 Add Section 603.5.22 as follows:

<u>603.5.22. Industrial Water Chillers.</u> Potable water connections to closed-loop industrial water chillers shall be protected from backflow by a reduced pressure principle backflow prevention assembly in accordance with Table 603.2.

Section 3. Effective Date. This ordinance shall become effective 30 days after enactment. Enactment occurs when the Mayor signs the ordinance, the Mayor returns the ordinance unsigned or does not sign the ordinance within ten days of receiving it, or the Board of Supervisors overrides the Mayor's veto of the ordinance.

Section 4. Scope of Ordinance. In enacting this ordinance, the Board of Supervisors intends to amend only those words, phrases, paragraphs, subsections, sections, articles, numbers, punctuation marks, charts, diagrams, or any other constituent parts of the Municipal Code that are explicitly shown in this ordinance as additions, deletions, Board amendment additions, and Board amendment deletions in accordance with the "Note" that appears under the official title of the ordinance.

Section 5. Directions to Clerk. The Clerk of the Board of Supervisors is hereby directed to forward a copy of this ordinance to the California Building Standards Commission upon final passage.

APPROVED AS TO FORM:

DENNIS J. HERRERA, City Attorney

Bv:

JUDITH A. BOYAJIAN

Deputy City Attorney

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## City and County of San Francisco Tails

City Hall 1 Dr. Carlton B. Goodlett Place San Francisco, CA 94102-4689

## Ordinance

File Number: 180969

Date Passed: February 11, 2020

Ordinance amending the Plumbing Code to delete the local amendment to the California Plumbing Code referring to the San Francisco Public Utilities Commission's Rules and Regulations in the section on cross-connection control, and to add local cross-connection controls for beverage dispensers and industrial water chillers and a testing requirement for backflow prevention assemblies or devices; affirming the Planning Department's determination under the California Environmental Quality Act; and directing the Clerk of the Board of Supervisors to forward this Ordinance to the California Building Standards Commission upon final passage.

December 03, 2018 Land Use and Transportation Committee - CONTINUED TO CALL OF THE CHAIR

September 16, 2019 Land Use and Transportation Committee - CONTINUED TO CALL OF THE CHAIR

January 13, 2020 Land Use and Transportation Committee - AMENDED, AN AMENDMENT OF THE WHOLE BEARING SAME TITLE

January 13, 2020 Land Use and Transportation Committee - CONTINUED AS AMENDED

January 27, 2020 Land Use and Transportation Committee - RECOMMENDED

February 04, 2020 Board of Supervisors - PASSED ON FIRST READING

Ayes: 11 - Fewer, Haney, Mandelman, Mar, Peskin, Preston, Ronen, Safai, Stefani, Walton and Yee

February 11, 2020 Board of Supervisors - FINALLY PASSED

Ayes: 11 - Fewer, Haney, Mandelman, Mar, Peskin, Preston, Ronen, Safai, Stefani, Walton and Yee

I hereby certify that the foregoing Ordinance was FINALLY PASSED on 2/11/2020 by the Board of Supervisors of the City and County of San Francisco.

> Angela Calvillo Clerk of the Board

London N. Breed Mayor **Date Approved**