

**BOARD of SUPERVISORS**



**City Hall**  
**1 Dr. Carlton B. Goodlett Place**  
**Room 244**  
**San Francisco, CA 94102-4689**  
**Tel. No. 554-5184**  
**Fax No. 554-5163**  
**TDD/TTY No. 554-5227**

March 19, 2020

SENT CERTIFIED MAIL (Return Receipt Requested)

California Building Standards Commission  
State of California  
2525 Natomas Park Drive, Suite 130  
Sacramento, CA 95833

**SUBJECT: Plumbing Code - Cross-Connection Control**

To Whom It May Concern:

Pursuant to California Health & Safety Code, Section 17958.7, enclosed please find a certified copy of the following legislation, which was finally passed by the Board of Supervisors of the City and County of San Francisco, and approved by the Mayor, on the dates specified below:

- **Ordinance No. 030-20 (File No. 180969)** – 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.  
*(Board of Supervisors - Finally Passed on 2/11/2020) (Mayor - Approved on 2/21/2020)*

If you have any questions or require additional information, please contact Erica Major, Assistant Clerk, at (415) 554-4441 or email [Erica.Major@sfgov.org](mailto:Erica.Major@sfgov.org).

Sincerely,

Angela Calvillo  
Clerk of the Board

1 [Plumbing Code - Cross-Connection Controls]

2  
3 Ordinance amending the Plumbing Code to delete the local amendment to the  
4 California Plumbing Code referring to the San Francisco Public Utilities Commission's  
5 Rules and Regulations in the section on cross-connection control, and to add local  
6 cross-connection controls for beverage dispensers and industrial water chillers and a  
7 testing requirement for backflow prevention assemblies or devices; affirming the  
8 Planning Department's determination under the California Environmental Quality Act;  
9 and directing the Clerk of the Board of Supervisors to forward this Ordinance to the  
10 California Building Standards Commission upon final passage.

11 NOTE: Unchanged Code text and uncodified text are in plain Arial font.  
12 Additions to Codes are in *single-underline italics Times New Roman font*.  
13 Deletions to Codes are in *strikethrough italics Times New Roman font*.  
14 Board amendment additions are in double-underlined Arial font.  
15 Board amendment deletions are in ~~Arial font~~.  
16 Asterisks (\* \* \* \*) indicate the omission of unchanged Code  
17 subsections or parts of tables.

18 Be it ordained by the People of the City and County of San Francisco:

19 Section 1. Findings.

20 (a) The Planning Department has determined that the actions contemplated in this  
21 ordinance comply with the California Environmental Quality Act (California Public Resources  
22 Code Sections 21000 et seq.). Said determination is on file with the Clerk of the Board of  
23 Supervisors in File No. 180969 and is incorporated herein by reference. The Board affirms  
24 this determination.

25 (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.

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

4 (i) San Francisco has numerous tall buildings, among the tallest in  
5 California. The failure of a backflow preventer has a greater potential to allow backflow into  
6 the public water system because of higher pressures generated in tall buildings and/or where  
7 a building is elevated well above the street-level service connection. Requiring the installation  
8 of only backflow preventers that have passed field evaluation tests mitigates against the  
9 higher risk of failure due to San Francisco's topography.

10 (ii) Carbonated beverage dispensers with upstream copper pipe pose a risk  
11 of health hazard from leached copper in the event of backpressure. ASSE 1022 devices are  
12 not testable and therefore cannot undergo testing to assure proper function, as do the vast  
13 majority of backflow preventers in San Francisco. Because of the higher consequences of  
14 failure due to local topography, as described in (i) above, ASSE 1022 devices are  
15 inappropriate for use in San Francisco in systems with upstream copper pipe.

16  
17 Section 2. Section 603.0 of the Plumbing Code is hereby amended by revising  
18 Sections 603.2, 603.5.12, adding Section 603.4.22 and deleting Section 603.3, as follows:

19 **SEC. 603.0 – CROSS-CONNECTION CONTROL**

20 \* \* \* \*

21 Revise Table 603.2 as follows:

22 Add a footnote for the Applicable Standards heading that states:  
23 All backflow prevention assemblies or devices that are testable must have passed laboratory  
24 and field evaluation tests performed by a recognized testing organization.

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

1	Backflow preventer for Carbonated Beverage Dispensers (two independent check valves with a vent to the atmosphere)	ASSE	X	--	X	--	Installation includes carbonated beverage machines or dispensers. These devices operate under intermittent or continuous pressure conditions. <u>This device is only permitted in systems with no upstream copper pipe. Otherwise, a reduced pressure principle backflow prevention assembly is required.</u>
2		1022					
3							
4							
5							
6							
7							

8 ~~603.3 Add a new second paragraph to this section as follows:~~

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

11  
 12 Revise Section 603.5.12 as follows:

13 **603.5.12 Beverage Dispensers.** Potable water supply to beverage dispensers, carbonated  
 14 beverage dispensers, or coffee machines shall be protected by an air gap, a reduced  
 15 pressure principle backflow prevention assembly, or a vented backflow preventer that  
 16 complies with ASSE 1022, except that a vented backflow preventer may not be used to  
 17 protect carbonated beverage dispensers in systems with upstream copper pipe. For  
 18 carbonated beverage dispensers, piping material installed downstream of the backflow  
 19 preventer shall not be affected by carbon dioxide gas.

20  
 21 Add Section 603.5.22 as follows:

22 **603.5.22. Industrial Water Chillers.** Potable water connections to closed-loop industrial  
 23 water chillers shall be protected from backflow by a reduced pressure principle backflow  
 24 prevention assembly in accordance with Table 603.2.

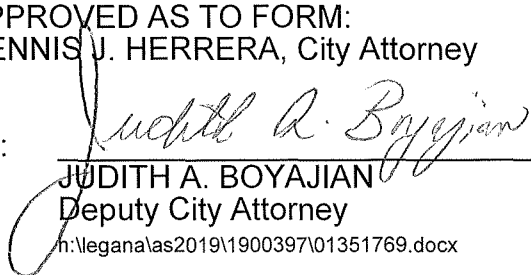
1 Section 3. Effective Date. This ordinance shall become effective 30 days after  
2 enactment. Enactment occurs when the Mayor signs the ordinance, the Mayor returns the  
3 ordinance unsigned or does not sign the ordinance within ten days of receiving it, or the Board  
4 of Supervisors overrides the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

5  
6 Section 4. Scope of Ordinance. In enacting this ordinance, the Board of Supervisors  
7 intends to amend only those words, phrases, paragraphs, subsections, sections, articles,  
8 numbers, punctuation marks, charts, diagrams, or any other constituent parts of the Municipal  
9 Code that are explicitly shown in this ordinance as additions, deletions, Board amendment  
10 additions, and Board amendment deletions in accordance with the "Note" that appears under  
11 the official title of the ordinance.

12  
13 Section 5. Directions to Clerk. The Clerk of the Board of Supervisors is hereby  
14 directed to forward a copy of this ordinance to the California Building Standards Commission  
15 upon final passage.

16  
17 APPROVED AS TO FORM:  
18 DENNIS J. HERRERA, City Attorney

19 By:

  
20 JUDITH A. BOYAJIAN  
21 Deputy City Attorney

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# City and County of San Francisco

## Tails Ordinance

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

**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

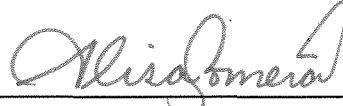
Ayes: 11 - Fewer, Haney, Mandelman, Mar, Peskin, Preston, Ronen, Safai, Stefani, Walton and Yee

February 11, 2020 Board of Supervisors - FINALLY PASSED

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

File No. 180969

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.



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Angela Calvillo  
Clerk of the Board



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London N. Breed  
Mayor



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Date Approved