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. Deletions to Codes are in strikethrough italics Times New Roman font.					
13	Board amendment additions are in double-underlined Arial font. Board amendment deletions are in strikethrough Arial font.					
14	Asterisks (* * * *) indicate the omission of unchanged Code subsections or parts of tables.					
15						
16	Be it ordained by the People of the City and County of San Francisco:					
17	Section 1. Findings.					
18	(a) The Planning Department has determined that the actions contemplated in this					
19	ordinance comply with the California Environmental Quality Act (California Public Resources					
20	Code Sections 21000 et seq.). Said determination is on file with the Clerk of the Board of					
21	Supervisors in File No. 180969 and is incorporated herein by reference. The Board affirms					
22	this determination.					
23	(b) On August 21, 2019, the Building Inspection Commission considered this					
24	modified ordinance at a duly noticed public hearing pursuant to Charter Section D3.750-5.					
25						

1	(c)	No findings are required for this ordinance Findings under Section 17958.7 of
2	the Californ	ia Health and Safety Code because the ordinance deletes a local amendment to
3	the Californ	ia 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. T	he failure of a backflow preventer has a greater potential to allow backflow into
6	the public w	rater system because of higher pressures generated in tall buildings and/or where
7	a building is	s elevated well above the street-level service connection. Requiring the installation
8	of only back	flow preventers that have passed field evaluation tests mitigates against the
9	<u>higher risk o</u>	of failure due to San Francisco's topography.
10		(ii) Carbonated beverage dispensers with upstream copper pipe pose a risk
11	of health ha	zard 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 b	packflow preventers in San Francisco. Because of the higher consequences of
14	<u>failure due t</u>	o local topography, as described in (i) above, ASSE 1022 devices are
15	<u>inappropriat</u>	e for use in San Francisco in systems with upstream copper pipe.
16		
17	Secti	on 2. Section 603.0 of the Plumbing Code is hereby amended by revising
18	Sections 60	3.2, 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 Tab	le 603.2 as follows:
22	Add a	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 ev	aluation tests performed by a recognized testing organization.
25	Revis	se the tenth entry in the Table to read as follows:

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

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>Mater 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.

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 Deputy City Attorney						
21	n:\legana\as2019\1900397\01351769.docx						
22							
23							
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