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Proposed Change 2007

Code Reference(s):	NPC20 Div.B 2.2.10.6. (first printing)
Subject:	Other
Title:	Automatic Shutoff of Lavatory Water Flow in Public Washrooms
Description:	This proposed change removes Sentence 2.2.10.6.(5) of the NPC to eliminate the conflict with Sentence 3.7.2.3.(4) of the NBC.

This change could potentially affect the following topic areas:

- | | |
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| <input type="checkbox"/> Division A | <input checked="" type="checkbox"/> Division B |
| <input type="checkbox"/> Division C | <input type="checkbox"/> Design and Construction |
| <input checked="" type="checkbox"/> Building operations | <input type="checkbox"/> Housing |
| <input type="checkbox"/> Small Buildings | <input type="checkbox"/> Large Buildings |
| <input type="checkbox"/> Fire Protection | <input type="checkbox"/> Occupant safety in use |
| <input type="checkbox"/> Accessibility | <input type="checkbox"/> Structural Requirements |
| <input type="checkbox"/> Building Envelope | <input type="checkbox"/> Energy Efficiency |
| <input type="checkbox"/> Heating, Ventilating and Air Conditioning | <input checked="" type="checkbox"/> Plumbing |
| | <input type="checkbox"/> Construction and Demolition Sites |

Problem

Currently, a conflict exists between Sentence 2.2.10.6.(5) of Division B of the National Plumbing Code of Canada (NPC) and Sentence 3.7.2.3.(4) of Division B of the National Building Code of Canada (NBC).

NBC Sentence 3.7.2.3.(4) allows for the manual operation of lavatories as well as automatic operation. However, NPC Sentence 2.2.10.6.(5) states "[e]ach lavatory in a public washroom shall be equipped with a device capable of automatically shutting off the flow of water when the lavatory is not in use."

The conflict between the NPC's requirement for automatic shutoff of the lavatory and the NBC's permission of optional manual operation may lead to potential confusion for Code users, who refer to the NPC and the NBC for applicable requirements for lavatories.

Justification

Eliminating NPC Sentence 2.2.10.6.(5) would resolve the current conflict between the provisions of the NPC and the NBC and eliminate confusion for Code users.

This proposed change would ensure that requirements in both the NBC and NPC are harmonized. It would also limit the probability that lavatory supply fittings in public washrooms would not have an integral means of stopping water flow.

PROPOSED CHANGE

NPC20 Div.B 2.2.10.6. (first printing)

[2.2.10.6.] 2.2.10.6. Valves, and Supply and Waste Fittings

- [1] 1)** Supply fittings shall conform to
 - [a] a) ASME A112.18.1/CSA B125.1, "Plumbing Supply Fittings", or
 - [b] b) CSA B125.3, "Plumbing fittings".
- [2] 2)** Except for lavatories in healthcare facilities, emergency eye washes, and emergency showers, supply fittings and individual shower heads shall have an integral means of limiting the maximum water flow rate to that specified in Table 2.2.10.6. (See Note A-2.2.10.6.(2).)

**Table [2.2.10.6.] 2.2.10.6.
Water Flow Rates from Supply Fittings
Forming Part of Sentence [2.2.10.6.] 2.2.10.6.([2] 2)**

Supply Fittings	Maximum Water Flow Rate, L/min
Lavatory supply fittings	
private	5.7
public	1.9
Kitchen supply fittings (except those in industrial, commercial or institutional kitchens)	8.3
Shower heads	7.6

- [3] 3)** An automatic compensating valve serving an individual shower head addressed in Sentence (1) shall have a water flow rate equal to or less than the shower head it serves. (See Note A-2.2.10.6.(3).)
- [4] 4)** Where multiple shower heads installed in a public showering facility are served by one temperature control, each shower head shall be equipped

with a device capable of automatically shutting off the flow of water when the shower head is not in use. (See Note A-2.2.10.6.(4) ~~and (5).~~)

~~[5] 5) Each lavatory in a public washroom shall be equipped with a device capable of automatically shutting off the flow of water when the lavatory is not in use. (See Note A-2.2.10.6.(4) and (5).)~~

[6] 6) Waste fittings shall conform to ASME A112.18.2/CSA B125.2, "Plumbing Waste Fittings".

[7] 7) Manually operated valves of *NPS* 4 or less for use in *plumbing systems* shall conform to ASME A112.4.14/CSA B125.14, "Manually Operated Valves for Use in Plumbing Systems". (See Note A-2.2.10.6.(7).)

Note A-2.2.10.6.(4) ~~and (5)~~ Automatic Shut-off of Water Flow.

Examples of water shut-off devices include occupant sensors and self-closing valves.

Impact analysis

There is no cost impact as the requirements were previously included in the NPC and the NBC.

Enforcement implications

Removing this conflict would lead to consistency and guide the authorities having jurisdiction when enforcing these requirements across multiple disciplines.

Who is affected

Building and plumbing officials, owners, and designers of commercial buildings.

OBJECTIVE-BASED ANALYSIS OF NEW OR CHANGED PROVISIONS

NPC20 Div.B 2.2.10.6. (first printing)

[2.2.10.6.] 2.2.10.6. ([1] 1) [F80-OP5]

[2.2.10.6.] 2.2.10.6. ([2] 2) [F131-OE1.2]

[2.2.10.6.] 2.2.10.6. ([3] 3) [F30-OS3.1]

[2.2.10.6.] 2.2.10.6. ([3] 3) [F31-OS3.2]

[2.2.10.6.] 2.2.10.6. ([4] 4) [F131-OE1.2]

~~[2.2.10.6.] 2.2.10.6. ([5] 5) [F131-OE1.2]~~

[2.2.10.6.] 2.2.10.6. ([6] 6) [F80-OH2.1,OH2.3]

[2.2.10.6.] 2.2.10.6. ([7] 7) [F81-OP5]

[2.2.10.6.] 2.2.10.6. ([7] 7) [F46-OH2.2]