



CODES CANADA

Firestop National Building Code 2015

25 September 2019 André Laroche, Manager Regulatory Solutions

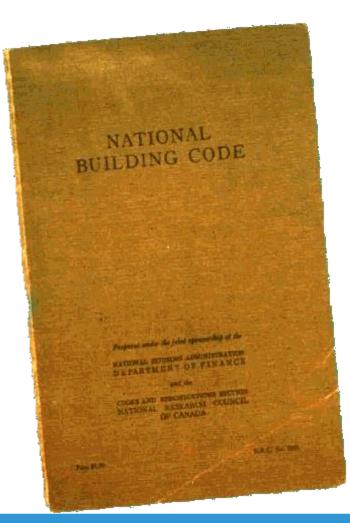
Outline

- National Model Codes
- Codes Development System
- How to participate
- What's up?
- Summary of changes



History!

- > 1937
- First edition of the National Building Code: 1941





Today's codes & guides

- > 50+ Codes published since 1941
- > 2015 latest editions of 4 codes
- > Paper & electronic format (\$\$\$) and free versions
- > 3 Guides, supplements and commentaries
 - Structural Commentaries (User's Guide–NBC 2015: Part 4 of Division B)
 - Illustrated User's Guide–Part 9 NBC 2015, Housing and Small Buildings
 - User's Guide–National Energy Code of Canada for Buildings 2015 and 2017
- Codes seminar videos and handbook



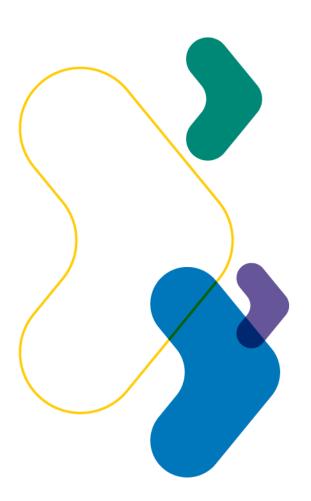
Benefits of National Model Codes



CODES CANADA — Build on Expertise

National collaboration

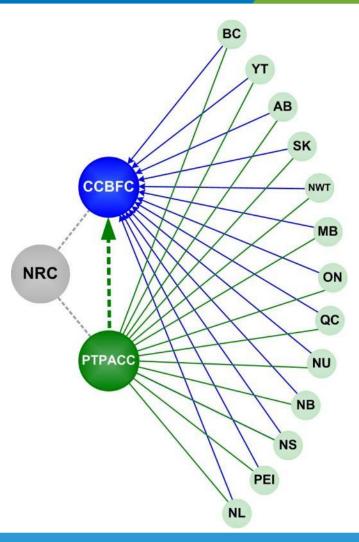
- Over 75 years of collaboration and partnership between
 - Provinces and Territories
 - National Research Council (NRC)
- Canadian Commission on Building and Fire Codes (CCBFC)
 - Provincial/Territorial Policy Advisory Committee on Codes (PTPACC)





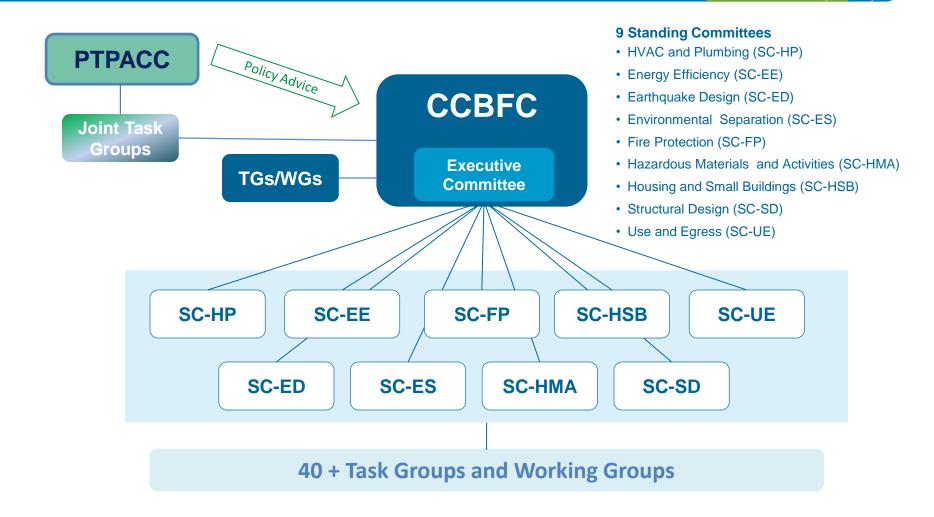
The coordinated code development system in Canada

- > Independence
- > Balance
- > Consensus
- > Expertise
- > Evidence
- > Neutrality
- > Legislative authority
- > Policy goals



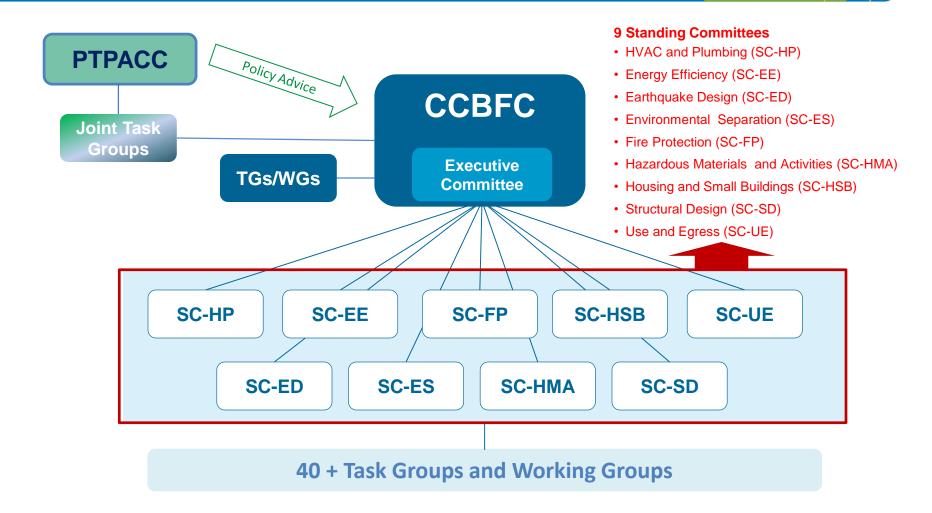


CCBFC committees & interactions





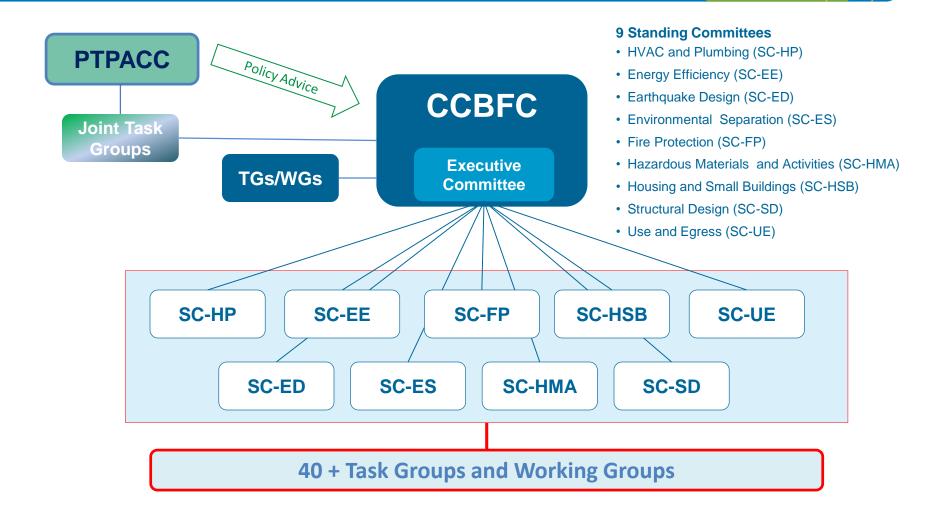
CCBFC committees & interactions





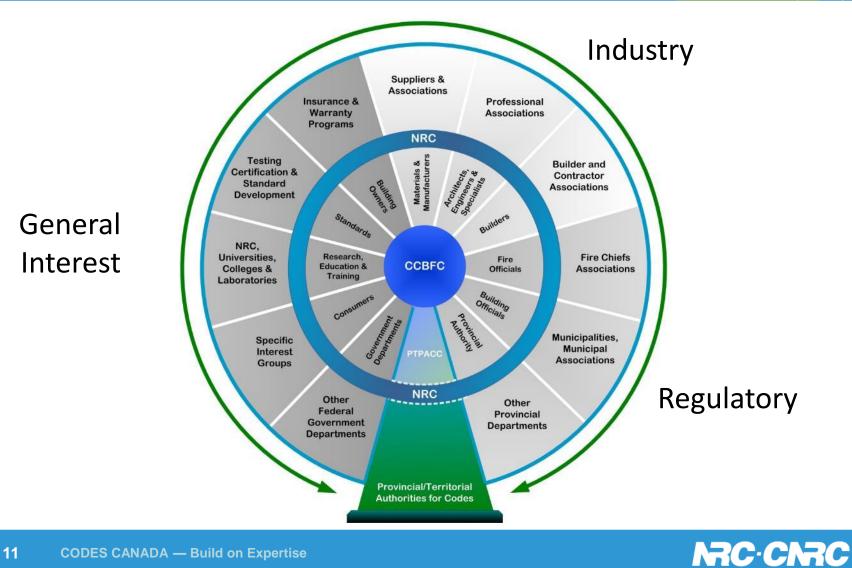
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CCBFC committees & interactions

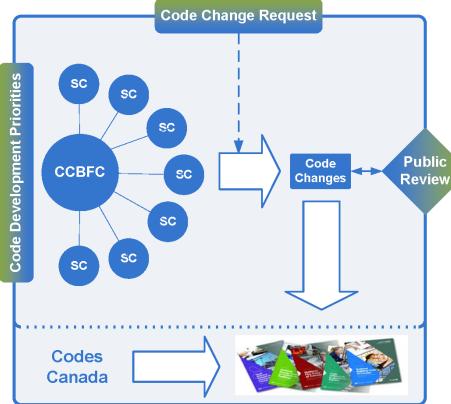




Balanced membership



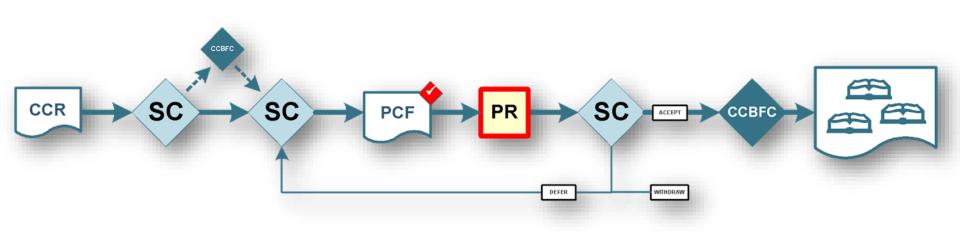
Entry points to code development system



- Entry points for code users
 - Submit requests
 - Submit comments
 - Participate in meetings
- Additional entry point for Provinces and Territories
 - Advise CCBFC



How to participate

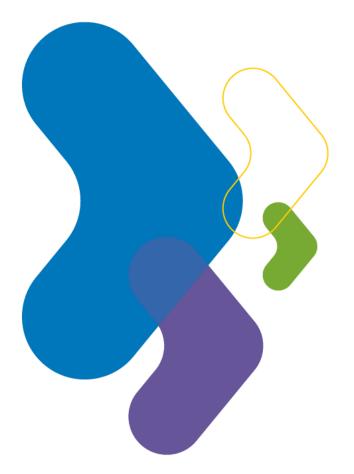


- > CCR: code change request
- > SC: standing committee
- > PCF: proposed change form
- > PR: public review



Consensus-based decision making

- > Substantial agreement of members
- All opinions are considered and weighed





Conflict of interest

- > Self-declare conflict of interest (known or potential)
- > Participate in discussion
- > Abstain from vote



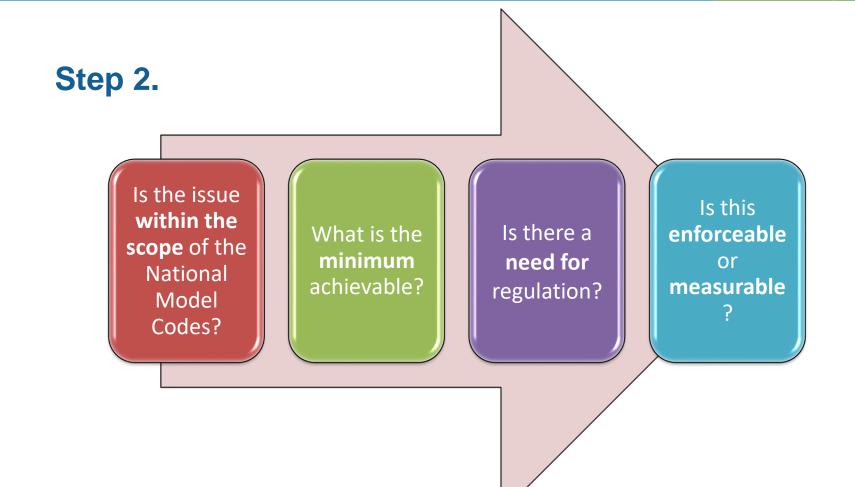


Step 1.

- Define or validate what the problem is
- What is the issue or need that the proposal will address?



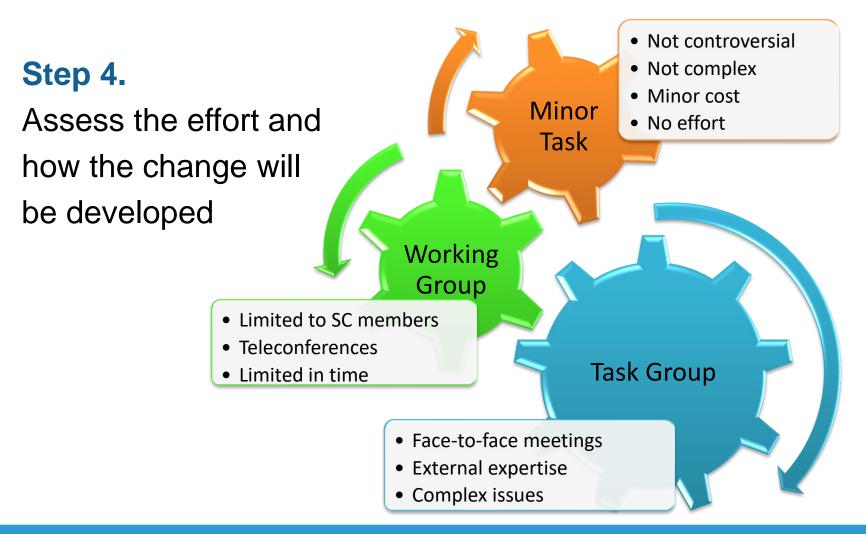






Step 3. Assess the priority	Fits under existin	g priority Yes ■ No 🗆
	Widespread issue	■ Local issue □
	Serious concern	 Low risk/low probability
	Likely to occur	□ Rare to occur ■
	Industry, P/T support	Individual, isolated issue





NCCNC

Principles of SMART regulation

A requirement must

- > Be within the scope of the code (objectives)
- > Identify a minimum acceptable solution
- > Address issues that need to be regulated
- > Be enforceable/measurable (at the time of construction)
- > Satisfy an impact analysis







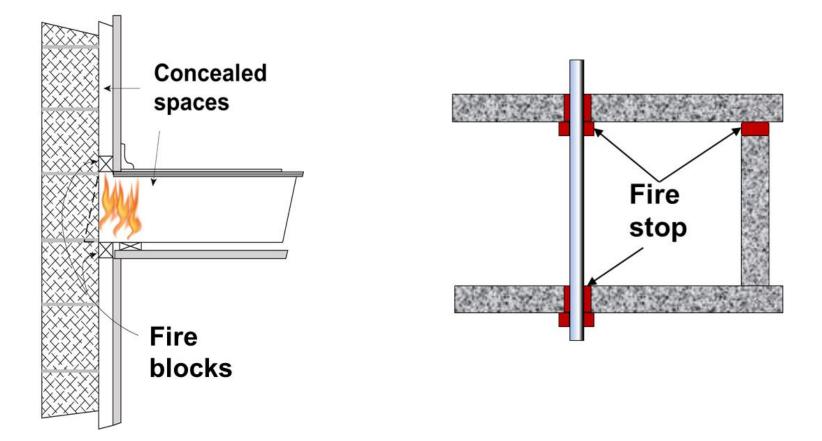




What's up?

- > Public reviews fall 2019 and winter 2020
- Comments review
- > Recommendations for publication
- > Final approval of the proposed changes
- > Target publication is NBC 2020

New definitions (2010)





Rating of fire stop (2010)



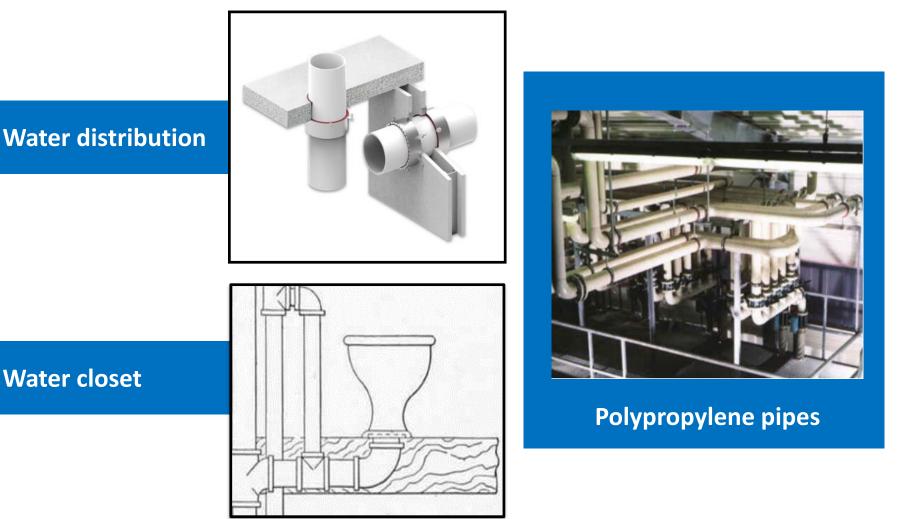
> CAN/ULC-S115, "Standard Method of Fire Tests of Firestop Systems"







Applications clarification (2010)



NRC·CNRC

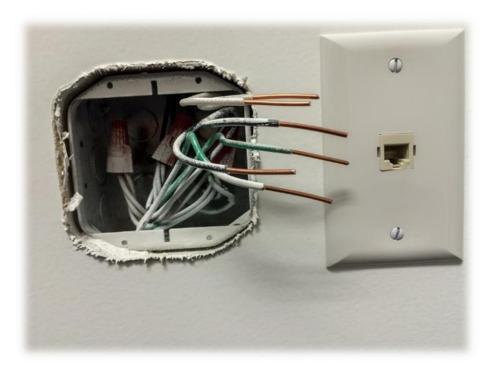
Summary–2010 Changes

- New definitions for fire stop and fire block
- Qualification of penetration
 protection requirements
- Relaxations for penetrations in fire separations



Electrical outlet boxes (2015)

> CAN/ULC-S112.2, "Standard Method of Fire Test of Ceiling Firestop Flap Assemblies"





Fire block (2015)

- > Qualification of fire block materials:
 - ASTM D5456,
 "Evaluation of Structural Composite Lumber Products"
- Midrise combustible construction and horizontal concealed spaces



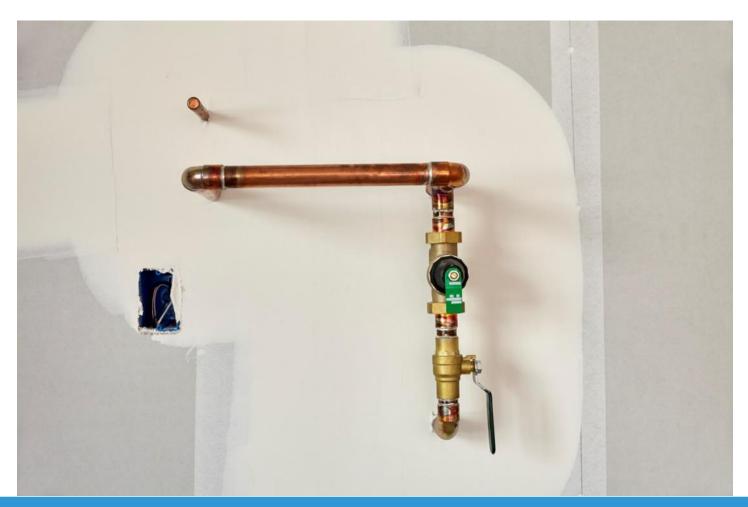


Summary–2015 Changes

- Clarification for the protection of outlet boxes
- New standard for the design requirement of fire stop flaps
- New wood products accepted as fire block materials
- Fire block required in horizontal concealed spaces for 5- and 6-storey combustible buildings



Combustible piping penetrations (2020)





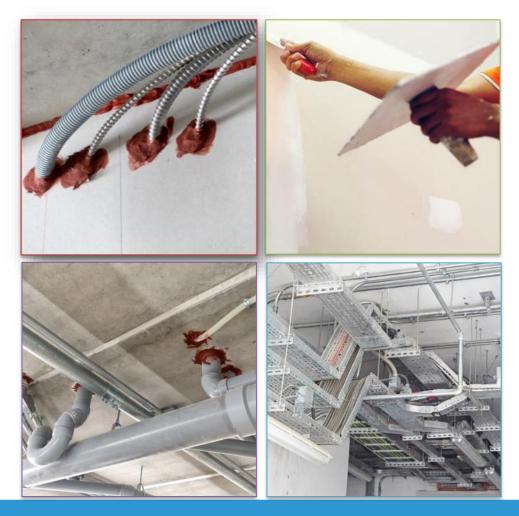
Damage to fire-rated elements

- > National Fire Code
- > Firestop





Penetrations (2020)



32 PCFs 1361, 1499, 1500, 1501, 1502, 1505, 1506, 1508, 1515, 1517, 1523, 1526, 1576



Summary-2020 Changes

- Clarification for combustible piping penetration
- Maintain the integrity of a fire separation
- Clarification of application
- Consistency between Parts 3 & 9



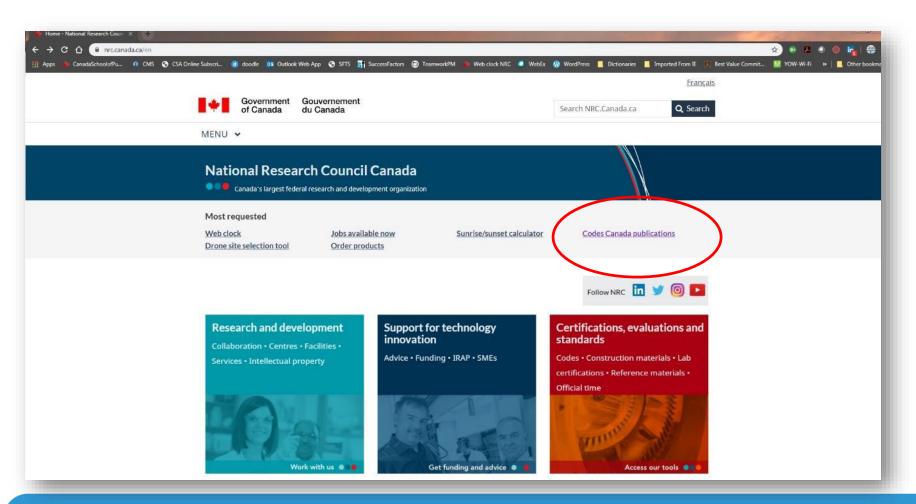
Key messages

- > Over 75 years of collaboration & partnership
- > Many external points of contact
- > Provinces/Territories choose to adopt the National Model Codes
- > Harmonized codes across the country
- > Penetrations in fire separation





https://nrc.canada.ca/en



NRC·CNRC

Free National Model Codes

Codes Canada publications

From: National Research Council Canada

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To choose the right edition of the Code for your jurisdiction, check with the municipal, <u>provincial or territorial</u> official.

Order the NBC 2015, NFC 2015 and NPC 2015 on the <u>NRC Virtual Store</u> or contact NRC's Client Services to place your order by email, fax or regular mail using the <u>order form (PDF, 302 KB)</u>.

eBook format: Available from eVantage in eBook format. Note that the eVantage eBook contains additional functionality and is not a free product. To purchase, visit <u>the eVantage on-line store</u>.

Codes Canada

2017

<u>National Energy Code of Canada for Buildings 2017</u>

2015

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Related information

<u>Revisions and errata to Codes</u> <u>Canada publications</u>



Thank you!



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