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National Codes Canada (Buildings)

30th Annual Meeting

**New Brunswick Non-profit Housing
Association**

Four Points by Sheraton
Edmundston, NB

May 26, 2023

Philippe Landry, P.Eng., Chief Operating Officer – Building Sector



Presentation Content

1. Objectives
2. Roy Consultants
3. National Codes Canada
4. New Brunswick Acts and Regulations
5. References
6. Conclusion
7. Questions
8. Thanks



OBJECTIVES

1. Provide Code History
2. Establish Link Between Codes and New Brunswick Laws
3. Offer an Overview of Codes



ROY CONSULTANTS

ABOUT ROY CONSULTANTS

- Multi-disciplinary Consulting Engineering Firm Established in 1984
 - We offer:
 - MECHANICAL Engineering
 - ELECTRICAL Engineering
 - CIVIL Engineering, Including
 - STRUCTURES
 - GEOTECHNOLOGY
 - MUNICIPAL
 - HYDRAULICS
 - TRANSPORTATION
 - ENVIRONMENT
 - Employee Owned (100% New Brunswick)
- 

OFFICE LOCATIONS



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NATIONAL CODES CANADA

NATIONAL CODES CANADA

History

1867 - Constitution Act

Pre 1900 – Major city fires and waves of mass infections.

1937 - First federal housing program

1937 - National Research Council (NRC) mandated to develop a building Code.

1941 - First National Building Code (NBC) of Canada is published.

1948 - Associate Committee on the National Building Code (ACNBC) is created.

1956 - Associate Committee on the National Fire Code (ACNFC) is created.

NATIONAL CODES CANADA

History (Cont'd)

1960 - First National Farm Building Code. First French version of the NBC.

1963 - First National Fire Prevention Code.

1970 - First National Plumbing Code as a separate document.

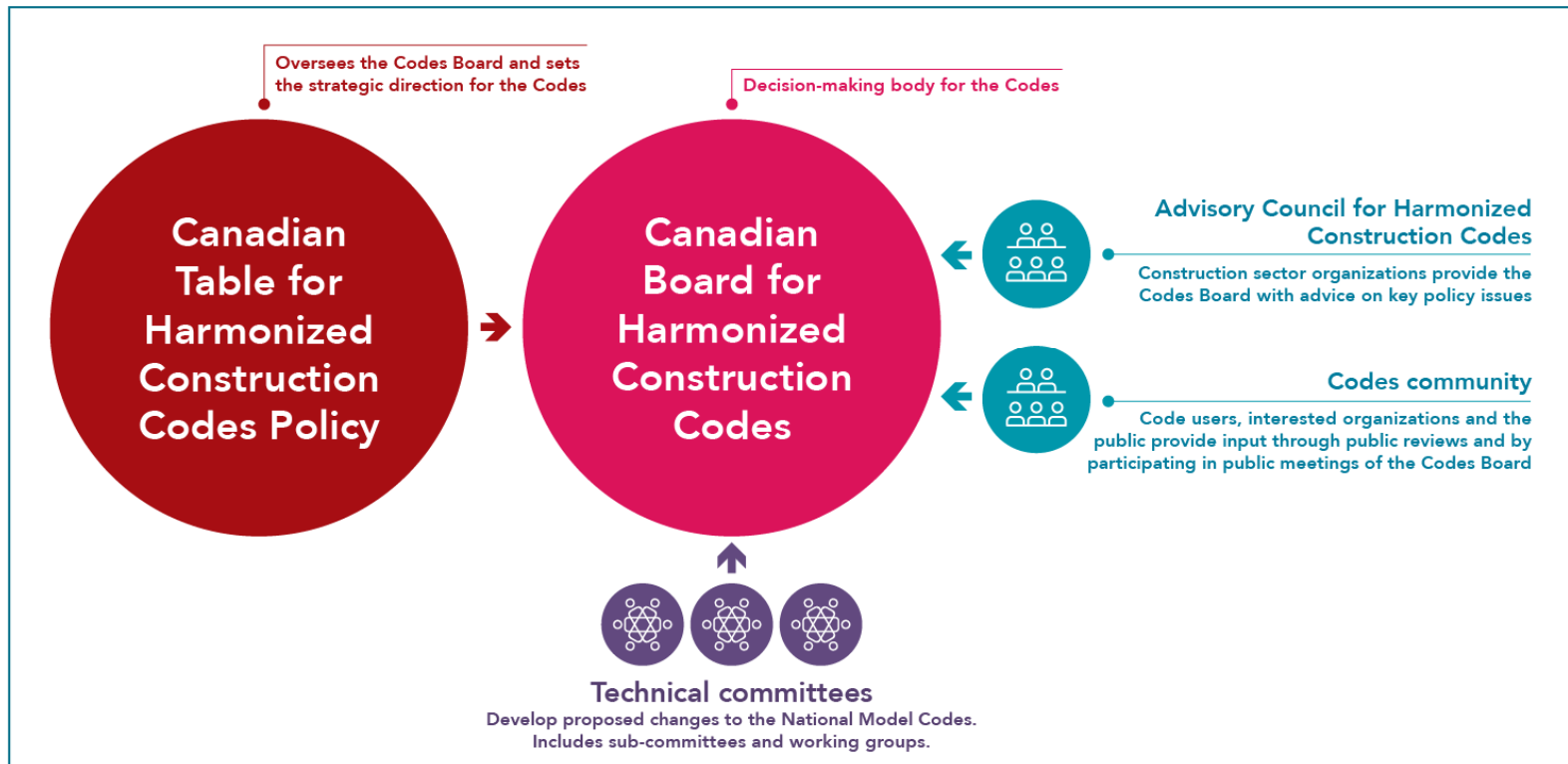
1991 - ACNBC is combined with ACNFC to form CCBFC.

1997 - First Model National Energy Codes for Buildings and Houses.

2022 - Canadian Board for Harmonized Construction Code (CBHCC) replaces CCBFC.

NATIONAL CODES CANADA

New governance model to harmonize construction codes in Canada



NATIONAL CODES CANADA



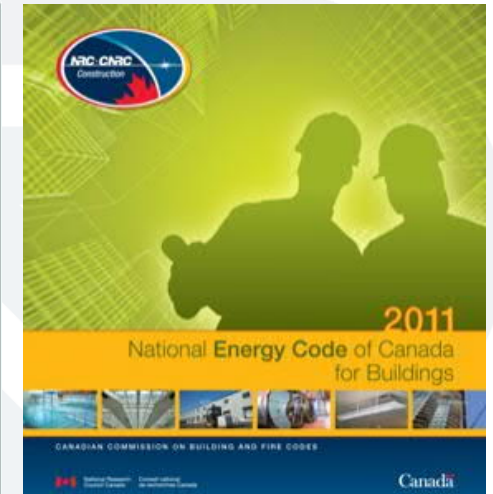
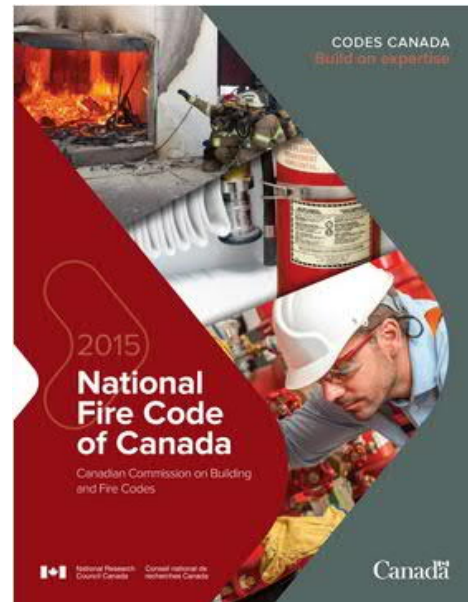
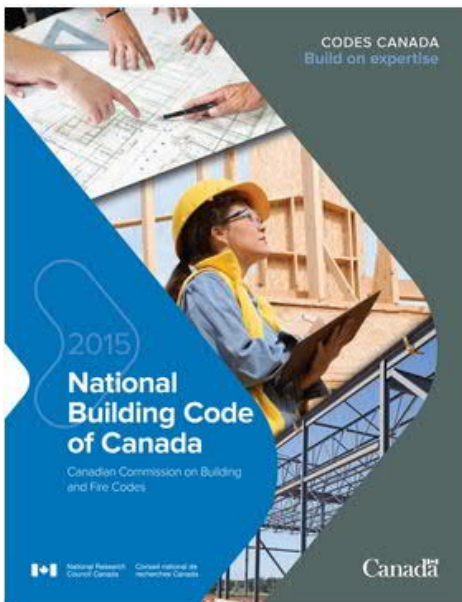
CCCBPI | CCBFC
Commission canadienne des codes
du bâtiment et de prévention des incendies
Canadian Commission on Building and Fire Codes



**Government
of Canada**

**Gouvernement
du Canada**

Conseil national de recherches Canada



NATIONAL CODES CANADA

To become law, these codes must be adopted by provincial and territorial authorities having jurisdiction.



NEW BRUNSWICK ACTS AND REGULATIONS

NEW BRUNSWICK ACTS AND REGULATIONS

Act of Interest

- 1 - Building Code Administration Act (2020, Ch. 8)
 - a - NB Regulation 2021-2 (General)
 - b - NB Regulation 2021-3 (Barrier-free Design Building Code)

NEW BRUNSWICK ACTS AND REGULATIONS

1 - Building Code Administrative Act (2020, Ch. 8)

Applications :

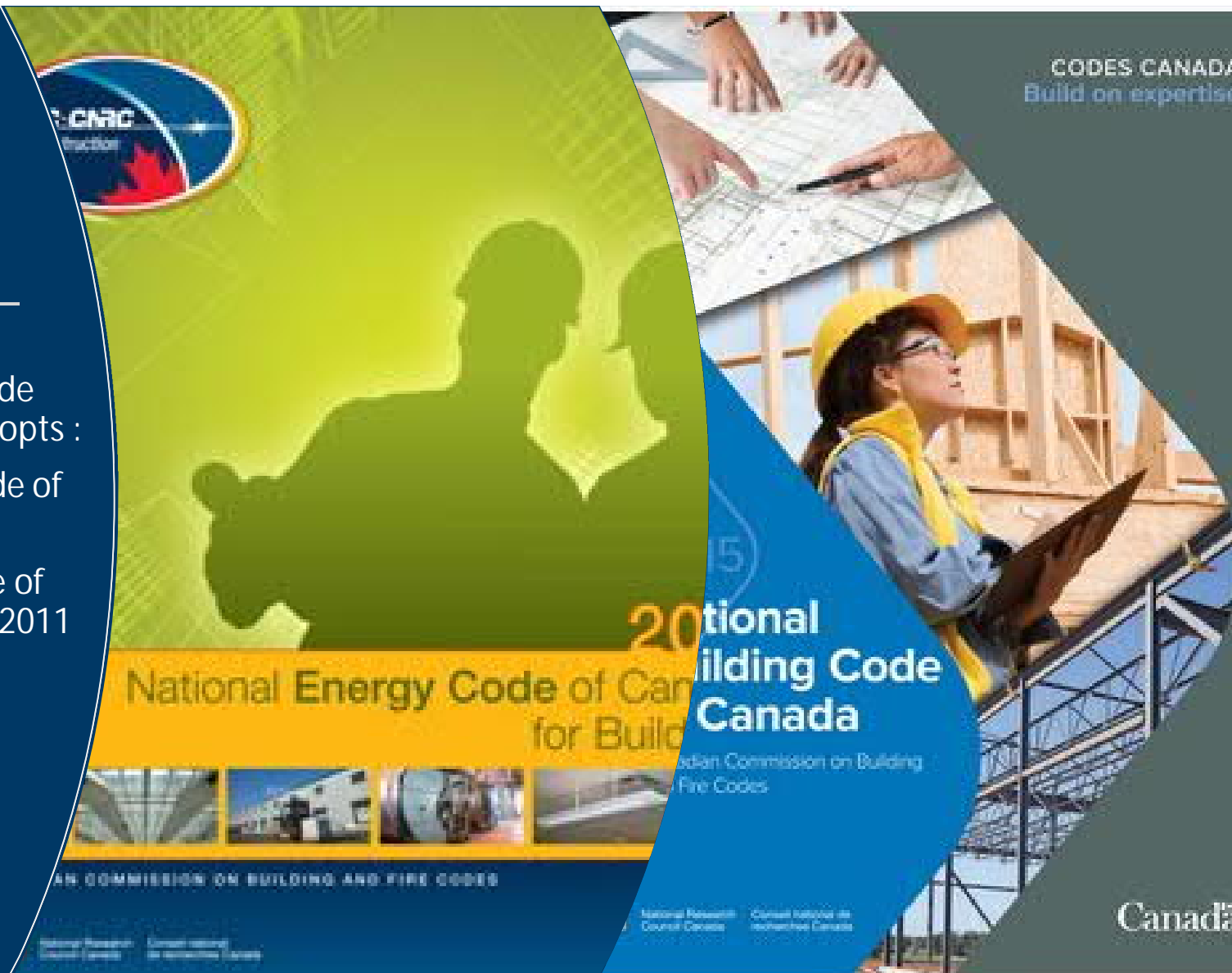
- Design and construction of new buildings;
- Transformation of an existing building;
- Change in use of an existing building;
- Demolition of an existing building.

The law states that no person shall construct* a building in New Brunswick, unless:

- A building permit is issued;
- Construction conforms with the Code* and local by-laws.

NEW BRUNSWICK ACTS AND REGULATIONS

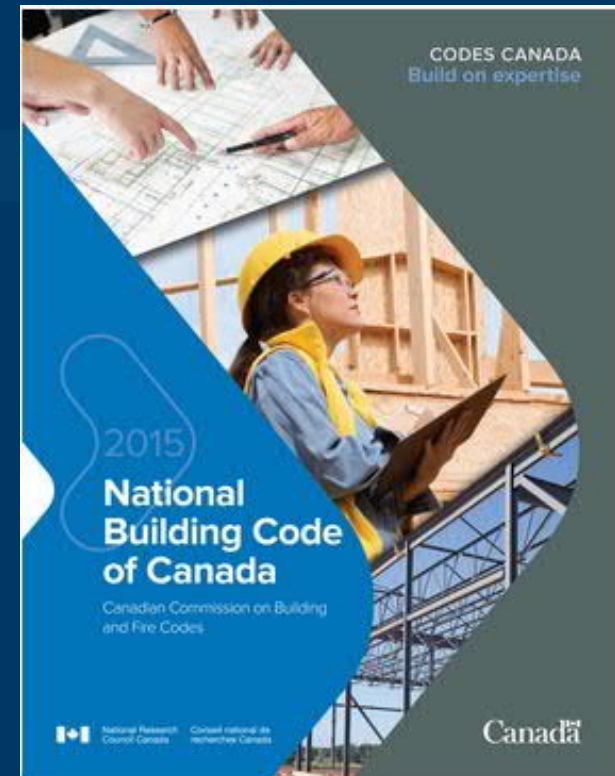
- NB Regulation 2021-2 under the Building Code Administration Act adopts :
 - National Building Code of Canada 2015 (NBC)
 - National Energy Code of Canada for Buildings 2011 (NECB)



NEW BRUNSWICK ACTS AND REGULATIONS

NBC

- **Addresses the design and construction of new buildings and the substantial renovation of existing buildings;**
- **It establishes minimal requirements relating to**
 - safety;
 - health;
 - accessibility;
 - building protection against fire and structural damages;
 - environment.



NEW BRUNSWICK ACTS AND REGULATIONS

NBC Parts

Division A – Compliance, Objectives and Functional Statements

Division B – Acceptable Solutions

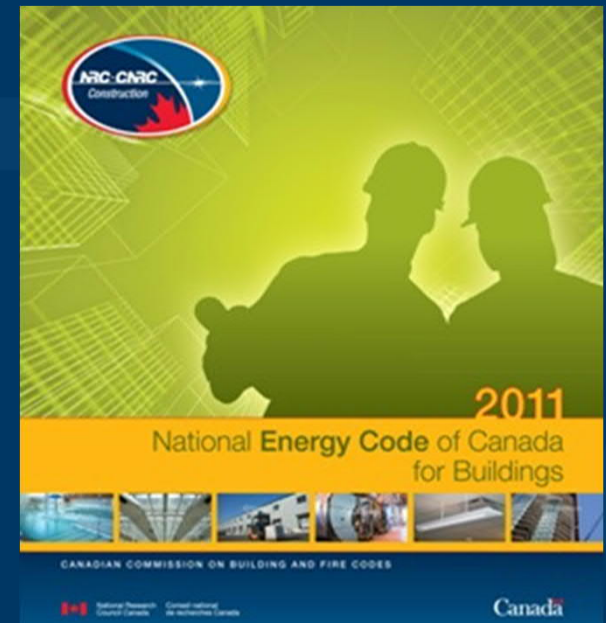
- Part 1 – General
- Part 2 – Reserved
- Part 3 – Fire Protection, Occupant Safety and Accessibility
- Part 4 – Structural Design
- Part 5 – Environmental Separation
- Part 6 – Heating, Ventilation and Air-conditioning
- Part 7 – Plumbing Services
- Part 8 – Safety Measures at Construction and Demolition Sites
- Part 9 – Housing and Small Buildings

Division C – Administrative Provisions

NEW BRUNSWICK ACTS AND REGULATIONS

NECB

Provides minimum technical provisions for the design and construction of energy-efficient buildings. It applies to both new buildings and additions to existing buildings.



NEW BRUNSWICK ACTS AND REGULATIONS

Regulation 2021-3: Barrier-free Design



NEW BRUNSWICK ACTS AND REGULATIONS

Act of Interest

2 - Fire Prevention Act (Ch. F-13)

a - NB Regulation 82-20 (Fire Prevention and Inspection)

NEW BRUNSWICK ACTS AND REGULATIONS

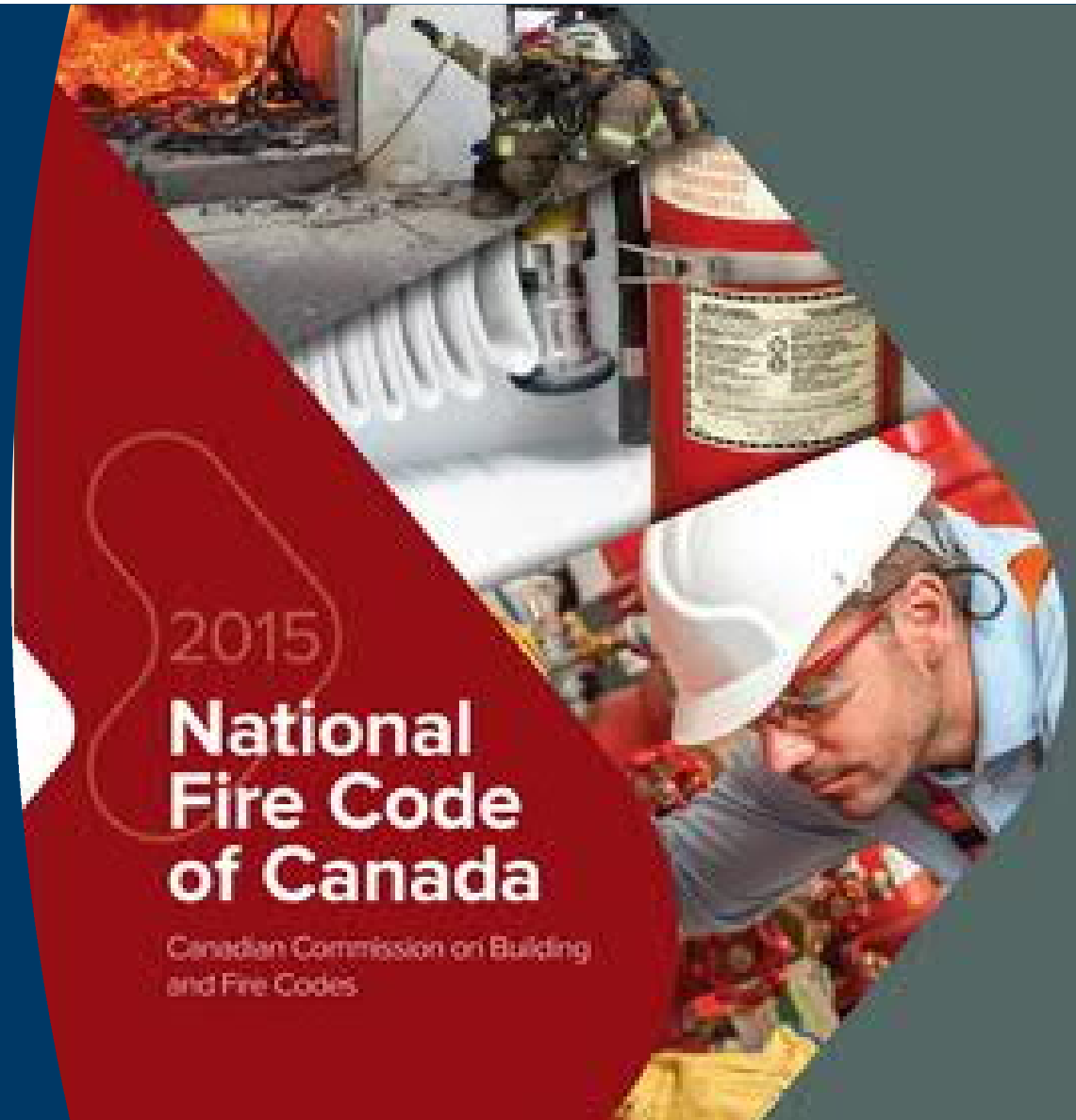
2 - Fire Prevention Act (Ch. F-13)

- This act applies to buildings used for sleeping accommodations owned or operated by the Crown in right of the Province.

NEW BRUNSWICK ACTS AND REGULATIONS

NB Regulation 82-20 under the Fire Prevention Act

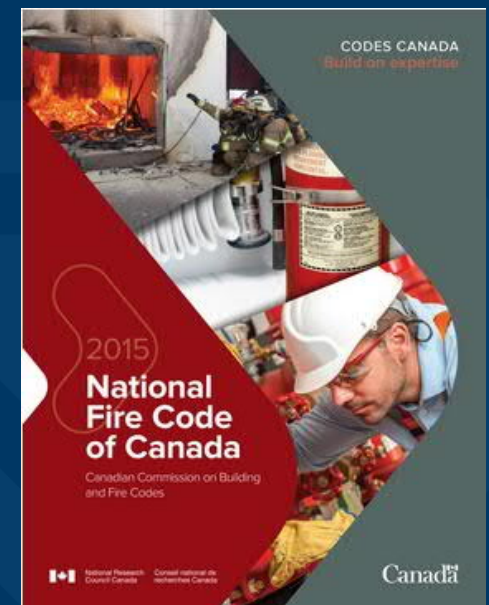
- National Fire Code of Canada 2015 (NFC) (among others)



NEW BRUNSWICK ACTS AND REGULATIONS

NFC

- Minimum fire safety requirements for buildings, structures and areas where hazardous materials are used,
- Fire protection and prevention in the ongoing operation of buildings and facilities;
- Complementary to the NBC;
- Establishes minimal requirements relating to
 - safety;
 - health;
 - protection of buildings and installations against fire.



NEW BRUNSWICK ACTS AND REGULATIONS

Act of Interest

3 - Plumbing Installation and Inspection Act (2014, Ch. 126)

a - NB Regulation 84-187 (Plumbing Licensing and Inspection)

NEW BRUNSWICK ACTS AND REGULATIONS

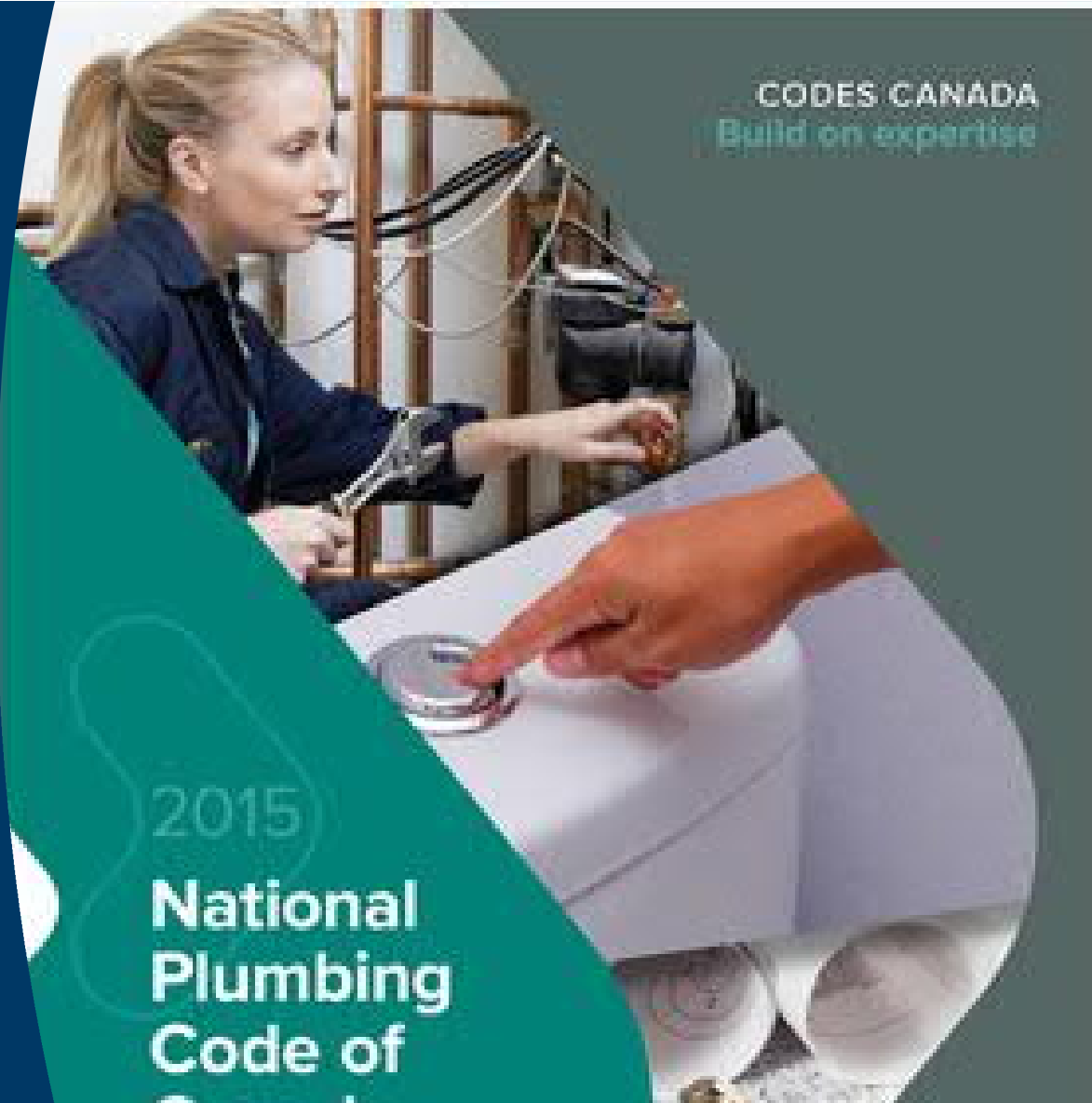
3 - Plumbing Installation and Inspection Act

(2014, Ch. 126)

- All work done to a plumbing system in the province shall conform to the standards prescribed by regulations;

NEW BRUNSWICK ACTS AND REGULATIONS

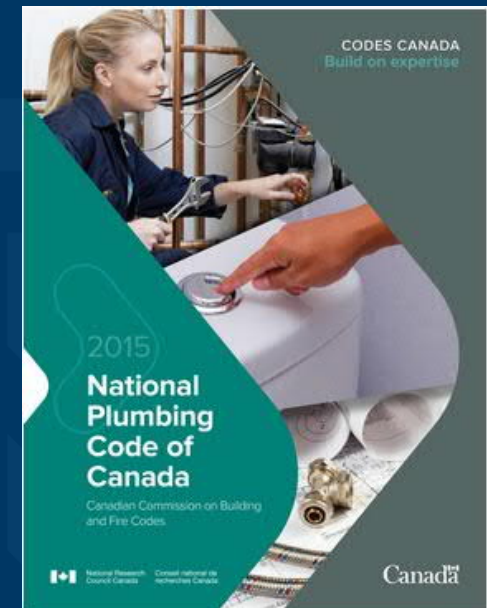
- NB Regulation 84-187 under the Plumbing Installation and Inspection Act adopts
 - The National Plumbing Code of Canada 2015 (NFC);
 - the amendments presented in section 3 of NB Regulation 84-187.



NEW BRUNSWICK ACTS AND REGULATIONS

NPC

- Covers the design and installation of plumbing systems in buildings and facilities (new and existing).
- It establishes minimal requirements relating to
 - safety;
 - health;
 - protection of buildings and installations against water and environmental damages.



REFERENCES

- National Research Council of Canada (NRC)
(<https://nrc.canada.ca/en>)
- New Brunswick Acts and Regulations
(https://www2.gnb.ca/content/gnb/en/departments/public-safety/attorney-general/content/acts_regulations.html)

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CONCLUSION

CONCLUSION

Codes

- Are developed by CBHCC
- Need to be adopted by provincial and territorial authorities to become law;
- Contribute to
 - the population's health and safety;
 - the accessibility of buildings;
 - the safeguard of the environment,
 - the limitation of the probability of fire and structural damage to buildings.

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QUESTIONS

**THANK YOU
AND**

**LET'S COLLECTIVELY BUILD
OUR REGIONS!**

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