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# A Review of the Radiological Protection Landscape in Canada

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• Topics covered, time of attendance



## In This Session

**Ionizing Radiation Effect Categories** 

International System of Radiological Protection

#### Regulatory Structure

- Nuclear
- X-Ray
- NORM
- Radon

Legislative Review

#### Movement break

- Charlmane Wong
- Ji Hong Tai Chi & Qi Gong Richmond Hill





## Also called deterministic effects

- Certain to occur over a threshold dose
- Dose can vary by individual
- If dose is increased, effect is worse

## **Tissue Effects**



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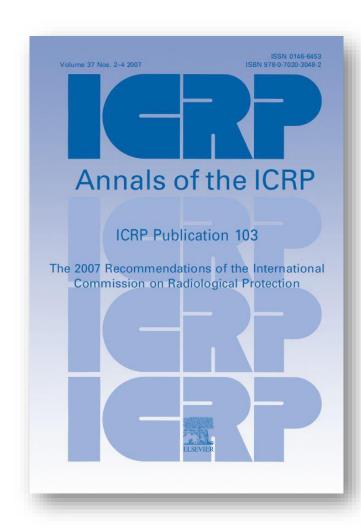


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### Stochastic Effects

- Radiation dose increases the risk of getting the effect
- Not a certainty; probabilistic
- As dose increases, risk increases





## System of Radiological Protection



ICRP Publication 103



## The 2007 Recommendations of the International Commission on Radiological Protection

**ICRP Publication 103** 

Approved by the Commission in March 2007

Abstract—These revised Recommendations for a System of Radiological Protection formally replace the Commission's previous, 1990, Recommendations; and update, consolidate, and develop the additional guidance on the control of exposure from radiation sources issued since 1990.

Thus, the present Recommendations update the radiation and tissue weighting factors in the quantities equivalent and effective dose and update the radiation detriment, based on the latest available scientific information of the biology and physics of radiation exposure. They maintain the Commission's three fundamental principles of radiological protection, namely justification, optimisation, and the application of dose limits, clarifying how they apply to radiation sources delivering exposure and to individuals receiving exposure.

The Recommendations evolve from the previous process-based protection approach using practices and interventions by moving to an approach based on the exposure situation. They recognise planned, emergency, and existing exposure situations, and apply the fundamental principles of justification and optimisation of protection to all of these situations. They maintain the Commission's current individual dose limits for effective dose and equivalent dose from all regulated sources in planned exposure situations. They re-inforce the principle of optimisation of protection, which should be applicable in a similar way to all exposure situations, subject to the following restrictions on individual doses and risks; dose and risk constraints for planned exposure situations, and reference levels for emergency and existing exposure situations. The Recommendations also include an approach for developing a framework to demonstrate radiological protection of the environment.

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Keywords: Justification; Optimisation; Dose limits; Constraints; Reference Levels



 Any decision that alters the radiation exposure situation should do more good than harm.

## **Justification Principle**





## Limitation Principle

 The total dose to any individual from regulated sources in planned exposure situations other than medical exposure of patients should not exceed the appropriate limits specified by the Commission.





 The likelihood of incurring exposure, the number of people exposed, and the magnitude of their individual doses should all be kept as low as reasonably achievable, taking into account economic and societal factors.

## **Optimization Principle**





# risk cancer Radiation-related Dose

## Linear Non-Threshold

Theoretical model

Not known what happens at low doses

Assumes that linear risk from high doses goes all the way down to zero

No threshold

Little dose = small increase in risk

## **Exposure Categories**

#### **Planned**

- Deliberate introduction and operation of sources
- May give rise both to anticipated to happen or not anticipated to happen

#### **Emergency**

 May occur during planned situations, malicious acts, or another other unexpected event

#### **Existing**

• Exposure situation already exists when a decision on control is to be taken



## Levels of Radiological Protection

| Dose Limits  | Constraints and Reference Levels         |  |
|--|--|--|
| Protect individual workers from occupational exposure and the Representative Person from public exposure |  |  |
|  |  |  |
| From all regulated sources in planned exposure situations  | From a source in all exposure situations |  |



## Categories & Situations

| SU  | Occupational Exposure  Exposure of workers incurred as a result of their work | Public Exposure  Exposure of members of the public other than occupational and medical exposures, and not including the normal local natural background radiation | Medical Exposure  Exposure of patients as part of their diagnosis or treatment, volunteers helping in the support and comfort of patients, and volunteers in biomedical research |
|---|---|---|--|
| Planned Exposure Situation  Situations where radiological protection can be planned in advance, and exposures can be reasonably predicted   | e.g. working in a hospital,<br>uranium mine, or nuclear<br>power plant        | e.g. visiting a hospital, living near a nuclear power plant   | e.g. getting an x-ray, CT scan, or radiation treatment   |
|   | e.g. aircrew and astronauts exposed to cosmic radiation                       | e.g. radon gas in the home  | n/a  |
| Existing Exposure Situation  Situations that already exist when a decision on control has to be taken  Emergency Exposure Situation  Unexpected situations that may require urgent protective actions | e.g. in the immediate response to an accident                                 | e.g. during a major accident  | n/a  |



## ICRP Dose Limit Recommendations

For planned occupational exposure situations.

| Type of Limit                   | Occupational  | Public          |
|---------------------------------|---|-----------------|
| Effective dose                  | 20 mSv per year averaged over defined periods of 5 years with no 1 year going over 50 | 1 mSv per year  |
| Equivalent dose, lens of eye    | 20 mSv per year averaged over defined periods of 5 years with no 1 year going over 50 | 15 mSv per year |
| Equivalent dose, skin           | 500 mSv   | 50 mSv per year |
| Equivalent dose, hands and feet | 500 mSv   | -               |

From Table 6, ICRP Publication 103



## General Radiation Protection Regulatory Structure in Canada

| Radiation Source          | Details  | Jurisdiction                              | Regulator  | Overarching<br>Legislation  |
|---------------------------|--|---|--|---|
| Nuclear<br>X-Ray >= 1 MeV | Does not include NORM unless part of the nuclear fuel cycle, import/export | Federal                                   | Canadian Nuclear Safety Commission Transport Canada                    | Nuclear Safety and Control Act Transportation of Dangerous Goods Act                                  |
| X-Ray < 1 Mev             | Being manufactured, sold, imported, or leased                              | Federal                                   | Health Canada, Radiation Protection Bureau                             | Radiation Emitting Devices Act  |
| X-Ray < 1 Mev             | Once installed   | Provincial,<br>Territorial, or<br>Federal | Province, Territory, or<br>Employment and Social<br>Development Canada | Typical OSHA, but some have standalone legislation  |
| NORM                      | Handling and disposal, not part of nuclear fuel cycle                      | Provincial,<br>Territorial, or<br>Federal | Province, Territory, or<br>Employment and Social<br>Development Canada | Typically OSHA<br>EPAs  |
| NORM                      | Transport, not part of nuclear fuel cycle                                  | Federal                                   | Canadian Nuclear Safety Commission Transport Canada                    | Packaging and Transport of Nuclear Substances Regulations, 2015 Transportation of Dangerous Goods Act |
| Radon                     | For those not licenced with the CNSC                                       | Provincial,<br>Territorial, or<br>Federal | Province, Territory, or<br>Employment and Social<br>Development Canada | Typical OSHA<br>Some building codes   |



## Canadian Nuclear Safety Commission

#### Legislation

Nuclear Safety and Control Act

#### Protecting?

- People
- Environment
- National Security

#### Responsible Person

- Applicant Authority
- Radiation Safety Officer

#### Licence or Registration Required?

• Yes, licence

| Person  | Period  | Effective Dose (mSv) |
|---|---|----------------------|
| NEW   | 1-yr dosimetry period                                     | 50                   |
| (including a breastfeeding NEW and a pregnant NEW who has not informed) | 5-yr dosimetry period                                     | 100                  |
| Pregnant NEW who has informed in writing                                | Balance of the pregnancy, from date of informing licensee | 4                    |
| A person who is not a nuclear energy worker                             | 1 calendar year   | 1                    |



## Canadian Nuclear Safety Commission

#### Legislation

Nuclear Safety and Control Act

#### Protecting?

- People
- Environment
- National Security

#### Responsible Person

- Applicant Authority
- Radiation Safety Officer

#### Licence or Registration Required?

• Yes, licence

| Organ or<br>Tissue | Person           | Period                  | Equivalent<br>Dose (mSv) |
|--------------------|------------------|-------------------------|--------------------------|
| Lens of an eye     | NEW              | 1-yr dosimetry period   | 50                       |
|                    | Any other person | 1 calendar year         | 15                       |
| Skin               | NEW              | 1-yr dosimetry period   | 500                      |
|                    | Any other person | 1 calendar year         | 50                       |
| Hands<br>and feet  | NEW              | 1-year dosimetry period | 500                      |
|                    | Any other person | 1 calendar year         | 50                       |



## Radiation Emitting Devices Act

#### Sets standards for all radiation emitting devices

- Manufacture, import, sale, resale lease of new equipment within Canada
- Devices that emit X-rays, microwaves, laser beams, radio waves
- Excludes those regulated by the CNSC and motor vehicles
- Labelling, emissions, construction, performance

#### The regulator is Health Canada, Radiation Protection Bureau

#### After initial acceptance:

• Provincial, Territorial, or Federal jurisdiction for Federal workplaces



| Province                   | Ministry / Department                                     | Acts and Regulations   |
|----------------------------|---|--|
| Alberta                    | Jobs, Economy, and Trade                                  | Occupational Health and Safety Code AR 191/2021 Part 20                        |
| British<br>Columbia        | <u>Labour</u><br><u>WorkSafeBC</u>                        | Occupational Health and Safety Regulation, Part 7, Division 3                  |
| Manitoba                   | Manitoba Labour and Immigration                           | Public Health Act X-Ray Safety Regulation, M.R. 341/88 R                       |
| New<br>Brunswick           | Post-Secondary Education, Training, and Labour WorkSafeNB | No specific regulation  Occupational Health and Safety Act General  Regulation |
| Newfoundland<br>& Labrador | Employment and Labour                                     | Radiation Health and Safety Act Radiation Health and Safety Regulations        |



| Province        | Ministry / Department                                    | Acts and Regulations                          |
|-----------------|--|---|
| Northwest       | Workers' Safety and                                      | Safety Act Northwest Territories / Nunavut    |
| Territories and | Compensation Commission                                  | Occupational Health and Safety Regulations    |
| Nunavut         |  | Northwest Territories / Nunavut               |
| Nova Scotia     | Labour, Skills, and Immigration                          | No specific regulation                        |
|                 | Worker's Compensation Board                              | Occupational Safety Act General Regulations   |
|                 |  | Worker's Compensation Act General Regulations |
| Ontario         | Ministry of Labour, Training,                            | Occupational Health and Safety Act            |
|                 | Immigration, and Skills  Development  Ministry of Health | Regulation 861                                |
|                 |  | Regulation 420/21                             |
|                 |  | Healing Arts Radiation Protection Act (HARP)  |
|                 |  | Regulation 543                                |



| Province                | Ministry / Department  | Acts and Regulations  |
|-------------------------|--|---|
| Prince Edward<br>Island | Workforce, Advanced Learning, and Population   | No specific regulation  Occupational Safety Act General Regulations  Worker's Compensation Act General Regulations  |
| Québec                  | MSSS, Santé et Services sociaux Québec CNESST, Commission des norms, de l'équité, de la santé et de la sécurité du travail | L-0.2, r.1 Règlement d'application de la Loi sur les laboratoires médicaux et sur la conservation des organes et des tissus  S-2.1, r.13 Règlement sur la santé et la sécurité du travail |



| Province     | Ministry / Department                    | Acts and Regulations                    |
|--------------|--|---|
| Saskatchewan | Labour Relations and Workplace           | The Saskatchewan Employment Act         |
|              | <u>Safety</u>                            | Radiation Health and Safety Regulations |
| Yukon        | Workers' Compensation Health and         | Occupational Health and Safety Act      |
|              | Safety Board                             | Radiation Protection Regulations        |
| Federally    | <b>Employment and Social Development</b> | Canada Labour Code                      |
| Regulated    | <u>Canada</u>                            | Canada Occupational Health and Safety   |
| Workplaces   | Health Canada's Radiation Protection     | <u>Regulations</u>                      |
|              | <u>Bureau</u>                            | Health Canada Safety Codes              |



| Jurisdiction              | Equipment Regulated                          |
|---------------------------|--|
| Alberta                   | Designated radiation equipment               |
| British Columbia          | Equipment producing ionizing radiation       |
| Manitoba                  | X-ray equipment<br>X-Ray machine             |
| Newfoundland and Labrador | Radiation equipment                          |
| Northwest<br>Territories  | X-ray equipment Ionizing radiation equipment |
| Nunavut                   | X-ray equipment                              |

| Jurisdiction                   | Equipment Regulated           |
|--------------------------------|-------------------------------|
| Ontario 861                    | X-ray machine<br>X-ray source |
| Ontario 543                    | X-ray machine                 |
| Qu <u>é</u> bec                | d'appareils à rayons X        |
| Saskatchewan                   | Ionizing radiation equipment  |
| Yukon                          | X-ray equipment or source     |
| Federally regulated Workplaces | X-ray equipment               |



| Jurisdiction              | Exposure Type           | Registration*                | Jurisdiction            | Exposure Type           | Registration* |
|---------------------------|-------------------------|------------------------------|-------------------------|-------------------------|---------------|
| Alberta                   | Occupational            | Yes                          | Ontario 861             | Occupational            | Yes           |
| British Columbia          | Occupational            | No                           | Ontario 543             | Medical                 | Yes           |
| Manitoba                  | Occupational<br>Medical | Yes                          | Qu <u>é</u> bec         | Occupational<br>Medical | Lab permit    |
| Newfoundland and Labrador | Occupational<br>Medical | Yes                          | Saskatchewan            | Occupational<br>Medical | Yes           |
| Northwest                 | Occupational            | Notification                 | Yukon                   | Occupational            | No            |
| Territories               |                         | Plan submission              | Federally               | Occupational            | No            |
| Nunavut                   | Occupational            | Notification Plan submission | regulated<br>Workplaces | Medical                 |               |

<sup>\*</sup>This refers to registration with the jurisdictional government in legislation. Some uses in some jurisdictions require registration with a professional association.



| Jurisdiction              | Health Canada Safety Code<br>Reference | Ju |
|---------------------------|--|----|
| Alberta                   | Yes                                    | 0  |
| British Columbia          | Yes                                    | 0  |
| Manitoba                  | No                                     | Q  |
| Newfoundland and Labrador | No                                     | S  |
| Northwest<br>Territories  | Yes                                    | F  |
| Nunavut                   | Yes                                    | V  |

| Jurisdiction                   | Health Canada Safety Code<br>Reference |
|--------------------------------|--|
| Ontario 861                    | No                                     |
| Ontario 543                    | Yes, for shielding                     |
| Qu <u>é</u> bec                | No                                     |
| Saskatchewan                   | Yes                                    |
| Yukon                          | Yes                                    |
| Federally regulated Workplaces | Yes                                    |



| Jurisdiction              | Responsible for RPP |
|---------------------------|---------------------|
| Alberta                   | Employer            |
| British Columbia          | Employer            |
| Manitoba                  | Owner               |
| Newfoundland and Labrador | Owner               |
| Northwest<br>Territories  | Employer            |
| Nunavut                   | Employer            |

| Jurisdiction                   | Responsible for RPP          |  |
|--------------------------------|------------------------------|--|
| Ontario 861                    | Responsible Person           |  |
| Ontario 543                    | Radiation Protection Officer |  |
| Qu <u>é</u> bec                | Not specific                 |  |
| Saskatchewan                   | Owner                        |  |
| Yukon                          | Owner                        |  |
| Federally regulated Workplaces | See applicable Safety Code   |  |

RPP = Radiation Protection Program



## Designated Worker Dose Limits X-Ray

| Jurisdiction     | Whole Body Dose Limit |
|------------------|-----------------------|
| Alberta          | 50 mSv (1 yr)         |
|                  | 100 mSv (5 yrs)       |
| British Columbia | 20 mSv (1 yr)         |
| Manitoba         | 0.03 Gy (13 wks)      |
|                  | 0.05 Gy (52 wks)      |
| Newfoundland     | 3 rad (13 wks)        |
| and Labrador*    | 5 rad (52 wks)        |
| Northwest        | 50 mSv (1 yr)         |
| Territories      | 100 mSv (5 yrs)       |
| Nunavut          | 50 mSv (1 yr)         |
|                  | 100 mSv (5 yrs)       |

| Jurisdiction                   | Whole Body Dose Limit            |
|--------------------------------|----------------------------------|
| Ontario 861                    | 50 mSv (1 yr)                    |
| Qu <u>é</u> bec*               | 3 rem (3 mo)<br>5 rem (1 yr)     |
| Saskatchewan                   | 50 mSv (1 yr)<br>100 mSv (5 yrs) |
| Yukon                          |                                  |
| Federally regulated Workplaces | See applicable Safety Code       |

<sup>\*</sup>Additional dose limits for people like medical students.



## Public Dose Limits X-Ray

| Jurisdiction              | Whole Body Dose Limit  |
|---------------------------|------------------------|
| Alberta                   | 1 mSv (1 yr)           |
| British Columbia          | Not directly addressed |
| Manitoba                  | 0.005 Gy (1 yr)        |
| Newfoundland and Labrador | 0.5 rad (1 yr)         |
| Northwest<br>Territories  | 1 mSv (1 yr)           |
| Nunavut                   | 1 mSv (1 yr)           |

| Jurisdiction                   | Whole Body Dose Limit      |
|--------------------------------|----------------------------|
| Ontario 861                    | 5 mSv (1 yr)               |
| Qu <u>é</u> bec*               | 10 mrem (1 wk)             |
| Saskatchewan                   | 1 mSv                      |
| Yukon                          |                            |
| Federally regulated Workplaces | See applicable Safety Code |

<sup>\*</sup>Includes dose limits for workers who are not designated as working with x-rays.



## Occupational Pregnancy Dose Limits X-Ray

| Jurisdiction              | Balance of Pregnancy             |
|---------------------------|----------------------------------|
| Alberta                   | 4 mSv                            |
| British Columbia          | 4 mSv or dose limit under NSCA   |
| Manitoba                  | 0.01 Gy for pelvic and abdominal |
| Newfoundland and Labrador | 0.5 rad for pelvic and abdominal |
| Northwest<br>Territories  | 4 mSv                            |
| Nunavut                   | 4 mSv                            |

| Jurisdiction                   | Balance of Pregnancy       |
|--------------------------------|----------------------------|
| Ontario 861                    | 5 mSv during the pregnancy |
| Qu <u>é</u> bec                | 1.5 rem (1 yr)             |
| Saskatchewan                   | 4 mSv                      |
| Yukon                          | 0.1 rad / mo               |
| Federally regulated Workplaces | See applicable Safety Code |



## **Eye Dose Limits**

| Jurisdiction                | Designated<br>Worker                 | Other           |
|-----------------------------|--------------------------------------|-----------------|
| Alberta                     | 50 mSv (1 yr)<br>100 mSv (5 yrs)     | 1 mSv (1 yr)    |
| British Columbia            | 50 mSv (1 yr)<br>100 mSv (5 yrs)     | -               |
| Manitoba*                   | 0.08 Gy (13 wks)<br>0.15 Gy (52 wks) | 0.015 Gy (1 yr) |
| Newfoundland and Labrador * | 8 rad (13 wks)<br>15 rad (52 wks)    | 1.5 rads (1 yr) |
| Northwest<br>Territories    | 150 mSv (1 yr)                       | 15 mSv (1 yr)   |
| Nunavut                     | 150 mSv (1 yr)                       | 15 mSv (1 yr)   |

| Jurisdiction                   | Designated Worker   | Other             |
|--------------------------------|---|-------------------|
| Ontario 861                    | 150 mSv (1 yr)  | 50 mSv (1 yr)     |
| Qu <u>é</u> bec                | 3 rem (3 mo)<br>5 rem (1 yr)  | 0.5 rem (1<br>yr) |
| Saskatchewan                   | Now:<br>150 mSv (1 yr)<br>Aug 2024:<br>50 mSv (1 yr)<br>100 mSv (5 yrs) | 15 mSv (1 yr)     |
| Yukon                          |   |                   |
| Federally regulated Workplaces | See applicable Safety<br>Code   |                   |

<sup>\*</sup>Other single organ



https://www.canada.ca/en/health-canada/services/publications/health-risks-safety/canadian-guidelines-management-naturally-occurring-radioactive-materials.html Canadian Guidelines for the **Management of Naturally Occurring Radioactive Materials** (NORM) Prepared by the Canadian NORM Working Group of the Federal Provincial Territorial Radiation Protection Committee Revised 2011 Canada

## **NORM**

canada/services/publications/health-risks-safety/guidelines-managing-naturally-occurring-radioactive-material-volume-3-transportation.html Canadian Guidelines for the Management of Naturally https://www.canada.ca/en/health-**Occurring Radioactive Materials** (NORM) **Volume III: Transportation** November 2021 Federal Provincial Territorial **Radiation Protection Committee** Canada

### **NORM**

#### From the Canadian Guidelines for the Management of Naturally Occurring Radioactive Materials (NORM)

Table 2.1
Radiation Dose Limits

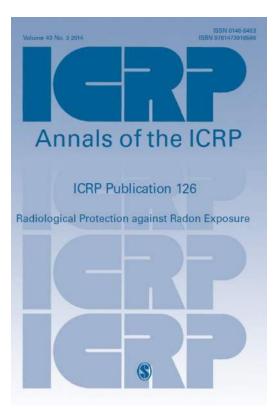
| Affected Group   | Annual Effective<br>Dose Limit<br>(mSv) <sup>(a)</sup> | Five Year Cumulative<br>Dose Limit<br>(mSv) |
|--|--|---|
| Occupationally Exposed<br>Workers <sup>(b)</sup>       | 20 <sup>(c)</sup>                                      | 100   |
| Incidentally Exposed Workers and Members of the Public | 1  | 5   |

#### Notes

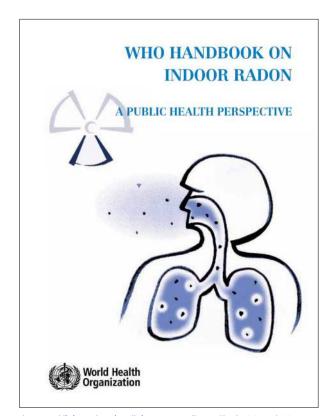
- <u>a</u> These limits are exclusive of natural background and medical exposures. Refer to Appendix D for guidance on dose limit calculations.
- Even be beliance of a known pregnancy, the effective dose to an occupationally exposed worker must be limited to 4 mSv as stipulated in the "Radiation Protection Regulations", Canadian Nuclear Safety Act. This limit may differ from corresponding dose limits specified in current provincial legislation applicable for exposure to sources of x-rays..
- For occupationally exposed workers, a maximum dose of 50 mSv in one year is allowed, provided that the total effective dose of 100 mSv over a five-year period is maintained. This translates into an average limit of 20 mSv/a.

https://www.canada.ca/en/health-canada/services/publications/health-risks-safety/canadian-guidelines-management-naturally-occurring-radioactive-materials.html

## Radon



https://www.icrp.org/publication.asp?id =ICRP%20Publication%20126



https://iris.who.int/bitstream/handle/10665/441 49/9789241547673 eng.pdf?sequence=1



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#### Radon guideline

The Canadian guideline for radon is 200 becquerels per cubic metre (Bg/m<sup>3</sup>).

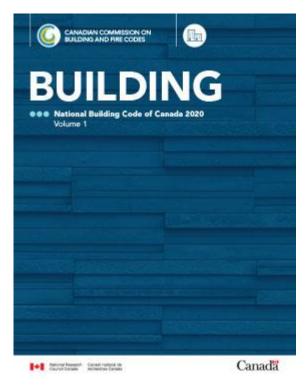
Health Canada collaborated with the Federal Provincial Territorial Radiation Protection Committee (FPTRPC) to review the health risk from exposure to radon. The risk assessment was based on scientific information and was the subject of broad public consultation. We developed the guideline for exposure to radon in indoor air using both the risk assessment and feedback obtained from the public consultation. We will review and update it as appropriate.

It's possible to reduce high levels of radon using corrective actions. We recommend that:

- you take corrective action if the average annual radon level exceeds 200 Bg/m³ in the normal occupancy area of a
- you take corrective action sooner, the higher the radon level is
- the corrective action should reduce the radon concentration as much as is practicable
- the construction of new buildings use techniques that minimize radon entry and will help remove radon after the construction is finished, if necessary

https://www.canada.ca/en/health-canada/services/environmental-workplacehealth/radiation/radon/government-canada-radon-guideline.html





https://nrc.canada.ca/en/certifications-evaluations-standards/codes-canada/codes-canada-publications/national-building-code-canada-2020

## Radon in Building Codes

- Summary of status of radon mitigation in building codes available on <a href="Canada.ca">Canada.ca</a>.
  - Soil gas barriers
  - Radon rough-in with stub
  - Passive sub-slab depressurization
  - Active sub-slab depressurization



## Canada Health Santé Canada Canada https://www.canada.ca/en/health-canada/services/environmental-workplace-health/reports-publications/radiation/radon-reduction-guide-canadians-health-canada.html REDUCTION GUIDE FOR CANADIANS

## Health Canada Resources

B4E Cores Cores https://www.canada.ca/en/health-canada/services/environmental-workplace-health/reports-publications/radiation/guide-radon-measurements-public-buildings-schools-hospitals-care-facilities-**GUIDE FOR** IN PUBLIC BUILDINGS Workplaces, Schools, Day Cares, Hospitals, Care Facilities, Correctional Centres detention-centres.html

Canada



- First addressing some questions sent during registration that weren't addressed in the presentation
- As time permits, we will address questions posted in the Q&A
- Questions we do not get to
  - Answers will be posted to our website and a link to resources emailed out

## Questions?





# "Good science in plain language"® Thank you for listening!

www.radiationsafety.ca

1-800-263-5803

info@radiationsafety.ca



## Wellness Break



Ji Hong Tai Chi & Qi Gong, Richmond Hill, ON