















- Regulates the use of nuclear energy and materials to protect health, safety, security and the environment
- Implements Canada's international commitments on the peaceful use of nuclear energy
- Disseminates objective scientific, technical and regulatory information to the public

#### We will never compromise safety!















#### **CNSC Staff Located Across Canada**

# Available 24/7

# Calgary Western Regional Office

Headquarters (HQ) in Ottawa 4 site offices at power reactors 1 site office at Chalk River 4 regional offices Saskatoon
Uranium Mills and Mines
Division Regional Office

Human resources: 857 FTEs
Financial resources: \$148 million
(~70 percent cost recovery; ~30 percent appropriation)

Licensees: ~1,700Licences: ~2,500

Fiscal year 2017–18

Chalk River

Bruce

Laval Eastern Regional Office

Darlington

Pickering







Point Lepreau









# CNSC Regulates All Nuclear-Related Facilities and Activities in Canada...

- Uranium mines and mills
- Uranium fuel fabrication and processing
- Nuclear power plants
- Nuclear substance processing
- Industrial and medical applications
- Nuclear research and educational
- Transportation of nuclear substances
- Nuclear security and safeguards
- Import and export controls
- Waste management facilities

...from cradle to grave















#### **Independent Commission**

- Quasi-judicial administrative tribunal
- Agent of the Government of Canada (the Crown)
- Reports to Parliament thru Minister of Natural Resources
- Commission members are independent and part-time
- Commission hearings are public and webcast
- Staff presentations in public
- Decisions are reviewable by Federal Court

# Transparent, science-based decision making

















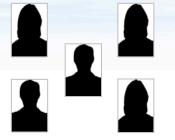
#### **Commission Members**



Dr. Michael Binder President and Chief Executive Officer, CNSC (Term expires May 8, 2018)



Dr. Alexander (Sandy) McEwan Chair, Department of Oncology, University of Alberta Edmonton, Alberta (Term expires Mar. 6, 2018)



\* Up to five permanent vacancies

 In February, the government announced a new open, transparent and merit-based selection process for appointments to reflect Canada's diversity.

# Deep Geologic Repository (DGR) Joint Review Panel (JRP)



Dr. Stella Swanson Biologist and Environmental Consultant Rockglen, Saskatchewan



Dr. Gunter Muecke Professor, Department of Geology, Dalhousie University Halifax, Nova Scotia



Dr. James F. Archibald Professor, Department of Mining, Queen's University Kingston, Ontario











#### **New Interim Commission Members**



Dr. Sandor Jean Demeter Medical doctor / physician advisor President-elect, Canadian Society of **Nuclear Medicine** Winnipeg, Manitoba (one-year term)



Mr. Rob Seeley Chemical engineer, formerly of Shell Canada Limited Fernie, British Columbia (one-year term)



Dr. Soliman A. Soliman Mechanical engineer and member of **Professional Engineers Ontario** Mississauga, Ontario (one-year term)

Currently managing vacancies through interim appointments (on a one-year basis)

#### **Continuing Commission Members**

Commission members can also be authorized to complete files they were working on at the time their terms expired:



Mr. Dan D. Tolgyesi President, Quebec Mining Association Québec City, Quebec (Term expired Oct. 19, 2016)



Ms. Rumina Velshi Former Director, Planning and Control, Darlington New Nuclear Project Toronto, Ontario (Term expired Dec. 14, 2016)





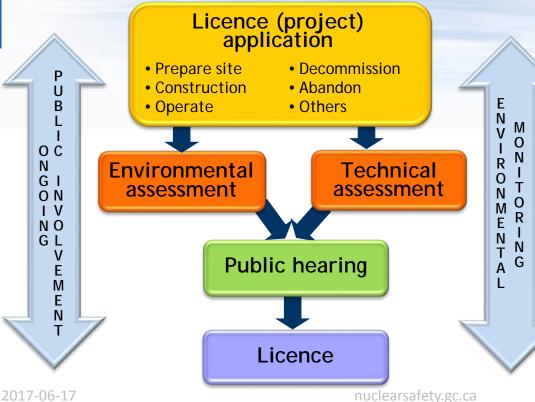








#### **Lifecycle Licensing Process**



#### Regulatory Oversight

- Licence conditions
- Inspections
- Compliance assurance
- Enforcement: from warnings to AMPs to prosecution

#### **Decision Making**

- Independent
- Risk-informed
- Technically sound
- Based on credible, scientific evidence













#### **Government Priorities**

- Indigenous relations
- Openness and transparency
- Science-based decisions
- Climate change

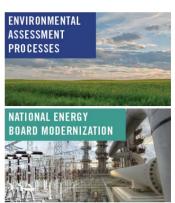
Canadian Nuclear

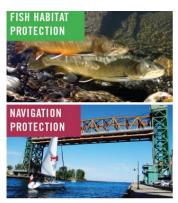
Safety Commission



- Environmental assessment process
- National Energy Board modernization
- Fisheries Act review
- Navigation Protection Act review















focus on



### CNSC Is a Unique Regulator in Canada

- Exclusive federal jurisdiction
- Independence from government
- Cradle-to-grave licensing and regulation
- Agent of Crown Consults Indigenous groups
- Rigorous compliance program and enforcement activities
- Open and transparent annual sector reports
- In-house nuclear and scientific expertise

## Nuclear Regulation is Unique - International

- International organizations:
   UN: International Atomic Energy Agency
   OECD: Nuclear Energy Agency
- International and regional regulatory groups:
   Senior Regulators (CANDU)
   International Nuclear Regulators Association
- Binding international treaties:

  Convention on Nuclear Safety (power reactors)

  Joint Convention (nuclear waste management)
- International standards and guidance
- International peer review missions











#### Nuclear Regulation Has Its Unique Challenges

- Maintaining independence and ensuring transparency
- New technologies, innovation and adapting framework
- Timespan is longer than other sectors
- Knowledge / expertise management
- An accident anywhere is an accident everywhere



#### Challenges amplified by misinformation













- Need to accommodate new technologies and innovation
- The CNSC is staying ahead of the curve:
  - Long-term strategic plan (e.g., modernizing our regulatory framework)
  - Vendor design reviews (e.g., small modular reactors)
  - Focus on nuclear power plant refurbishments and decommissioning
  - Waste management (e.g., Deep Geologic Repository, transportation)
  - Indigenous and public engagement



Canadian Nuclear

Safety Commission



























#### Thank you! Questions?



## Participate and Contribute



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