















Canadian Nuclear Safety Commission

- 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**

nuclearsafety.gc.ca

 Human resources: 850 FTFs Financial resources: \$148 million (~70 percent cost recovery; ~30 percent appropriation)

Licensees: ~1,700 Licences: ~2.500

Fiscal year 2016-17

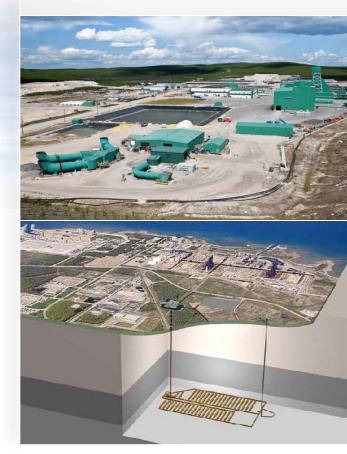
Point Lepreau HQ Chalk River Laval Eastern Regional Office Bruce Darlington Mississauga Southern Pickering **Regional Office**



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 through 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)



Vacant



Vacant

- In February, the Government of Canada announced a new open, transparent and merit-based selection process for Governor in Council appointments to reflect Canada's diversity.
- This lengthier selection process has resulted in a significant number of vacancies

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 (one-year term)



Mr. Rob Seeley (one-year term)



Dr. Soliman A. Soliman (one-year term)





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)











Update: Canada's Nuclear Power Plants

Darlington (Ontario)

- Licence valid until November 30, 2025
- 10-year, \$12.8 billion four-unit refurbishment underway

Pickering (Ontario)

- Licence valid until August 31, 2018
- Public hearing in April 2018 for proposed continued operation until 2024

Bruce (Ontario)

- Licence valid until May 31, 2020
- Refurbishment application not yet filed

Point Lepreau (New Brunswick)

- Refurbishment completed returned to service November 2012
- Licence valid until June 2017; renewal hearings in January and May 2017

Gentilly-2 (Quebec)

- In safe shutdown since December 28, 2012
- Decommissioning licence valid until <u>June 30, 2026</u>













Update: Operating Mines and Mills (All in Saskatchewan)

- Cigar Lake Mine
- Key Lake Mill
- McArthur River Mine
- McClean Lake Mines and Mill
- Rabbit Lake Mine and Mill (production suspended – April 2016)















Update: Proposed mining projects

- Midwest Project on hold (Saskatchewan)
- Kiggavik Project on hold (Nunavut)
- Matoush Project Quebec government review of BAPE report conclusions (Quebec)
- Millennium Project on hold (Saskatchewan)













Update: Canadian Nuclear Laboratories

Chalk River Laboratories licence valid until March 31, 2018 Three EAs for decommissioning underway

- Near Surface Disposal Facility Project (Chalk River)
 - Public comment period on EIS (will be open until at least August 16, 2017)
 - Commission hearing (January 2018)
- Decommissioning of the Whiteshell Reactor #1 (Pinawa)
 - Public comment period on EIS (September 2017)
 - Commission hearing (October 2018)
- Nuclear Power Demonstration Closure Project (Rolphton)
 - Public comment period on EIS (September 30 December 30, 2017)
 - Commission hearing (December 2018)













Update: Long-Term Waste Management

Port Hope Area Initiative and Gunnar Remediation Project – ongoing OPG's Western Waste Management Facility (at Bruce site)

Relicensing hearing held in April 2017

OPG's Pickering Waste Management Facility (at Pickering site)

Relicensing hearing held in April 2017

NWMO - Selecting a high-level radioactive waste site

- Site selection studies continue in 9 of 22 interested communities
- CNSC involved early to explain regulatory role and meet communities / Indigenous groups

Repatriation of Highly Enriched Uranium in Liquid Form

• All required certifications and approvals granted by Canadian and United States officials











Update: OPG's Deep Geologic Repository (DGR) for low- and intermediate-level waste

- Proposed storage of low- and intermediate-level waste from Ontario's nuclear power plants
- Joint Review Panel (JRP) held 33 days of public hearings; received 246 interventions and 20,000 pages of documentation
- JRP submitted report to Minister of Environment and Climate Change in 2015 for decision, recommending approval of project
- Minister requested additional information on alternate locations, cumulative environmental effects and mitigation measures in February 2016
- OPG submitted requested information to the Minister in January 2017
- Additional information requested by the Canadian Environmental Assessment Agency in April 2017
- Minister's decision expected in Fall 2017











Update: New Government

Reviews and decisions

- Environmental assessment processes
 (public comment on expert panel report until May 5, 2017)
- National Energy Board modernization (expert panel report to the Minister by May 15, 2017)
- Fisheries Act review (committee report tabled in Parliament on February 24, 2017)
- Navigation Protection Act review
 (committee report tabled in Parliament on March 23, 2017)











Update: New Government

Rebuilding relationships with Canada's Indigenous peoples

- Cabinet Committee on Diversity and Inclusion looks at initiatives to strengthen relationships with Indigenous Canadians
- Working group of six ministers to ensure Canada's laws, policies and programs protect Aboriginal and treaty rights
- United Nations Declaration on the Rights of Indigenous Peoples
 - free, prior and informed consent

Generation Energy

A cross-country dialogue on Canada's energy future











Recent Notable Activities

Commission hearings

 Port Hope Conversion Facility; Point Lepreau Nuclear Generating Station; Western Waste Management Facility; Pickering Waste Management Facility

Small modular reactors (SMRs)

- Commencement of phase 1 vendor design reviews (VDRs) for LeadCold Nuclear Canada (molten lead) and UltraSafe Nuclear Inc. (high temperature gas) designs
- Phase 1 VDR for Terrestrial Energy Inc. (molten salt) design began February 2016
- Expression of interest from a total of seven vendors for phase 1 VDRs

Fall 2016 Report of Commissioner of Environment and Sustainable Development

 CNSC Corrective Action Plan completed on March 31, 2017 and addressed all five recommendations













Upcoming Notable Events

Regulatory Framework – August 2017

 REGDOC-2.2.4, Fitness for Duty (which includes content on drug and alcohol testing), will be presented for a decision at a public Commission meeting in August 2017

Nuclear Energy Agency SMR Workshop (Ottawa) – August 2017

 CNSC, UK ONR and US NRC to discuss potential multilateral cooperation in the regulatory reviews of SMRs

DGR Regulators' Forum Workshop (Sweden) – September 2017

- Follow-up from Ottawa workshop in March 2016
- Topical discussions on regulatory approaches to DGRs



Working collaboratively to ensure the safe use of nuclear technology for peaceful purposes













Thank you! Questions?



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