

CANADIAN NUCLEAR SAFETY COMMISSION

Ensuring the safety of Canada's nuclear sector



Michael Binder, President Canadian Nuclear Safety Commission February 22, 2017 – Ottawa, Ontario

Presentation to the Canadian Association of Nuclear Host Communities

The Canadian Nuclear Safety Commission

- Regulates the use of nuclear energy and materials to protect health, safety, and 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

The CNSC Regulates All Nuclear 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 activities
- Transportation of nuclear substances
- Nuclear security and safeguards
- Import and export controls
- Waste management facilities

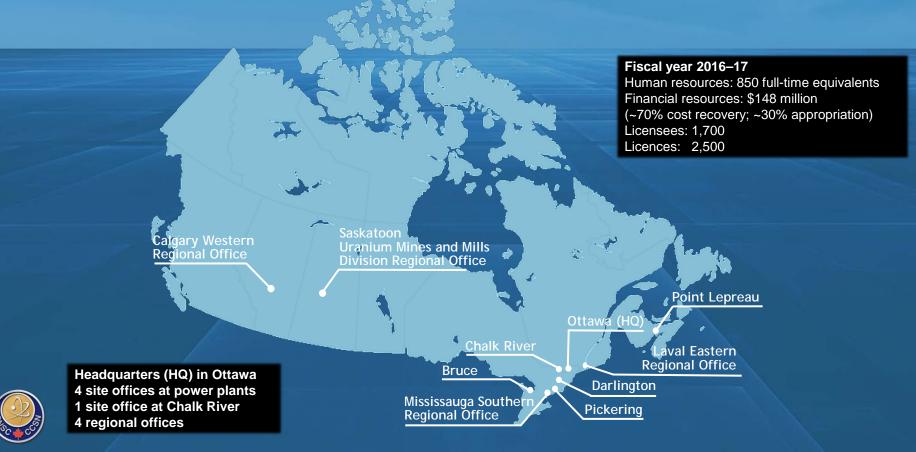




...From cradle to grave



CNSC Staff located across Canada



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 parttime
- Commission hearings are public and webcast
- Staff presentations in public
- Decisions are reviewable only 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)



Vacancy



Vacancy



Vacancy



Vacancy



Vacancy



Commission members Tolgyesi and Velshi are authorized to complete files they were working on at the time their terms expired.

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

Nuclear Power Plants – Status

Bruce

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

Point Lepreau

- Refurbishment completed returned to service November 2012
- Licence expires <u>June 2017</u>; renewal hearings in January and May 2017

Gentilly-2

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







Nuclear Power Plants – Status (2)

Darlington

- Licence expires November 30, 2025
- Darlington refurbishment
 - Refurbishment began October 15, 2016
 - \$12.8 billion project to refurbish all four units (2016 to 2026)
 - CNSC to closely monitor and support with reviews and inspections
- Ontario has put new build on hold





Nuclear Power Plants – Status (3)

Pickering

- Licence expires <u>August 31, 2018</u>
- Ontario approved plans for continued operation from 2020 to 2024
- Licence Application to be submitted August 2017
- Public Commission hearing (Part 1) set for April 2018





Canadian Uranium Projects Update

- Active uranium mining projects (Saskatchewan):
 - Key Lake Mill (Cameco)
 - McArthur River Mine (Cameco)
 - Rabbit Lake Mine/Mill (Cameco)
 - Announced suspension April 2016
 - Cigar Lake Mine (Cameco)
 - McClean Lake Mines/Mills (Areva)
 - Granted an 8-year licence July 2009
 - Upcoming hearing in June 2017
- Increased interest in exports to China and India
- Global price not supportive of production low demand and oversupply

Granted 10-year licences in 2013





Canadian Nuclear Laboratories

- Chalk River Laboratories licence renewed until March 31, 2018
- 3 EAs for decommissioning underway:
 - Near Surface Disposal Facility project (Deep River)
 - Public comment period on EIS (March 17 May 17, 2017)
 - Commission hearing (January 2018)
 - Decommissioning of the Whiteshell Reactor #1 (Pinawa)
 - Public comment period on EIS (April 3, 2017 July 3, 2017)
 - Commission hearing (October 2018)
 - Nuclear Power Demonstration closure project (Rolphton)
 - Public comment period on EIS (September 30, 2017 December 30, 2017)
 - Commission hearing (December 2018)





Waste Management

- Port Hope Area Initiative and Gunnar Remediation Project ongoing
- OPG's Western Waste Management Facility (at Bruce site)
 - Relicensing hearing in April 2017
 - CNSC preparing EA for proposed site expansion
- NWMO Finding a high-level radioactive waste site
 - Site selection studies continue in 9 of 22 communities
 - CNSC involved early to explain regulatory role and meet communities/Aboriginal groups
- OPG Deep Geological Repository (DGR) for low- and intermediate-level waste
 - OPG submitted additional studies in 2016 to the Minister of Environment and Climate Change
 - Minister's decision pending the outcome of public comments





Legal and Court Challenges

- Judicial review of Darlington refurbishment EA by NGOs
 - Federal Court of Appeals (FCA) dismissed NGOs' appeal April 2016
- Judicial Review of Darlington New Build EA and NSCA licensing by NGOs
 - Supreme Court of Canada dismissed the NGOs' application for leave to appeal April 2016
- DGR Two judicial review applications have been filed on the conclusions and recommendations of the JRP Report
 - Both have been placed in abeyance until the Minister's decision on DGR
- Repatriation of highly enriched uranium (HEU) from Chalk River to U.S. delayed
 - Lawsuit for an injunction in the U.S. in August 2016 dismissed in February 2017



Domestic and International Activities

Domestic

- Nuclear Liability and Compensation Act January 1, 2017.
- Fukushima regulatory amendments (published in Canada Gazette, Part I)
- Continuing to clarify regulatory requirements

International

- CNSC Presidency of Convention on Nuclear Safety 7th Review Meeting
- Continued participation in IAEA missions and other fora



Emergency Preparedness

Exercise Unified Response — May 2014 (Darlington)

First full-scale national emergency exercise in 15 years

Huron Resolve — October 2016 (Bruce)

Exercise in accordance with Fukushima Action Plan

Next exercise at Pickering — 2017

Wireless communications during an emergency

- Radio-interoperability with municipalities/operators key to emergency response
- OPG to adopt system interoperable with Durham Region





Government Priorities

Government reviews:

- Review of federal Environmental Assessment processes
- National Energy Board modernization
- Review of Fisheries Act
- Review of Navigation Protection Act

Indigenous Relations:

Truth and Reconciliation Commission



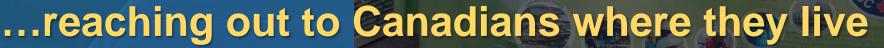


Consultation is at the core of all reviews

CNSC and Public Outreach

- Reinforcing the CNSC's role and independence
 - 177 events
 - CNSC 101; host communities; educational institutions; conferences; partner organizations; licensee, PFP and waste related (DGR/NWMO) outreach
- 2017 focus
 - Leveraging social media
 - Reaching medical audiences
 - Online engagement strategy
- Priority audiences
 - Indigenous groups, youth, host and potential host communities







Thank You! Questions?







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