



Canadian Nuclear  
Safety Commission

Commission canadienne  
de sûreté nucléaire

Canada

# *Regulatory Oversight of Major Decommissioning Projects under the Canadian GoCo Model*

**André Régimbald**

Directorate of Nuclear Cycle  
and Facilities Regulation

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CANADA 150



# Canadian Nuclear Safety Commission

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



*More than 70 years of nuclear safety in Canada*

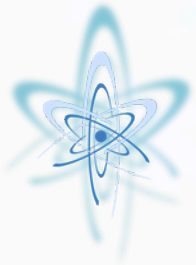


# Independent Commission

- Quasi-judicial administrative tribunal
- Independent Commission members
- Reports to Parliament through the Minister of Natural Resources
- Science-based decision making
- Open and transparent public participation in Commission decision making process



*Transparent, science-based decisions*



# CNSC Regulates All Nuclear-related Facilities and Activities

- Uranium mines and mills
- Uranium fuel fabrication and processing
- Nuclear power plants
- Waste management facilities
- Nuclear substance processing
- Industrial and medical applications
- Nuclear research and educational
- Transport
- Export/import controls

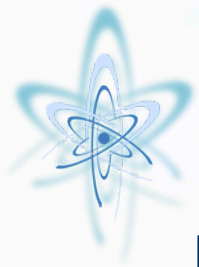
*From cradle to grave*





## Canadian GoCo Model

- **Government owned – Contractor operated (GoCo) model:**
  - Contractual arrangement between Atomic Energy of Canada Limited (federal crown corporation who is the owner of the facilities) and Canadian Nuclear Laboratories (private company who is the licensee)
- CNSC authorized the transfer of licences from AECL to CNL in 2014, after it had been satisfied that:
  - CNL is competent to operate AECL's facilities and sites
  - CNL will make adequate provisions for health, safety, security and the environment
  - CNL has sufficient autonomy to carry out its regulatory obligations
  - Adequate financial guarantees are maintained



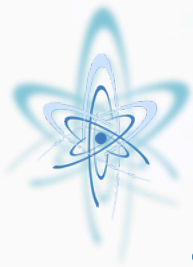
# CNL Proposed Decommissioning Projects

In spring 2016, CNSC received regulatory submissions from CNL for three major projects:

1. Construction of the Near-Surface Disposal Facility at the Chalk River Laboratories (Ontario)
2. Closure (in-situ disposal) of the Nuclear Power Demonstration (NPD) Reactor site in Rolphton (Ontario)
3. In-situ disposal of the WR-1 research reactor at the Whiteshell Laboratories (Manitoba)

*Environmental Assessments started in May 2016*





## CNSC Regulatory Review of the 3 Projects

- Regulatory review process for the three projects involves taking into consideration the GoCo model, the accelerated project timelines and their novel approaches for Canada (e.g., first in-situ disposal of reactors)
- CNSC initiated the regulatory review of the three projects by:
  - Having in place a sound and flexible regulatory framework
  - Ensuring effective and efficient capacity for regulatory review
  - Enabling the delivery of results
  - Having in place open and transparent stakeholder information and engagement program



## Sound Regulatory Framework

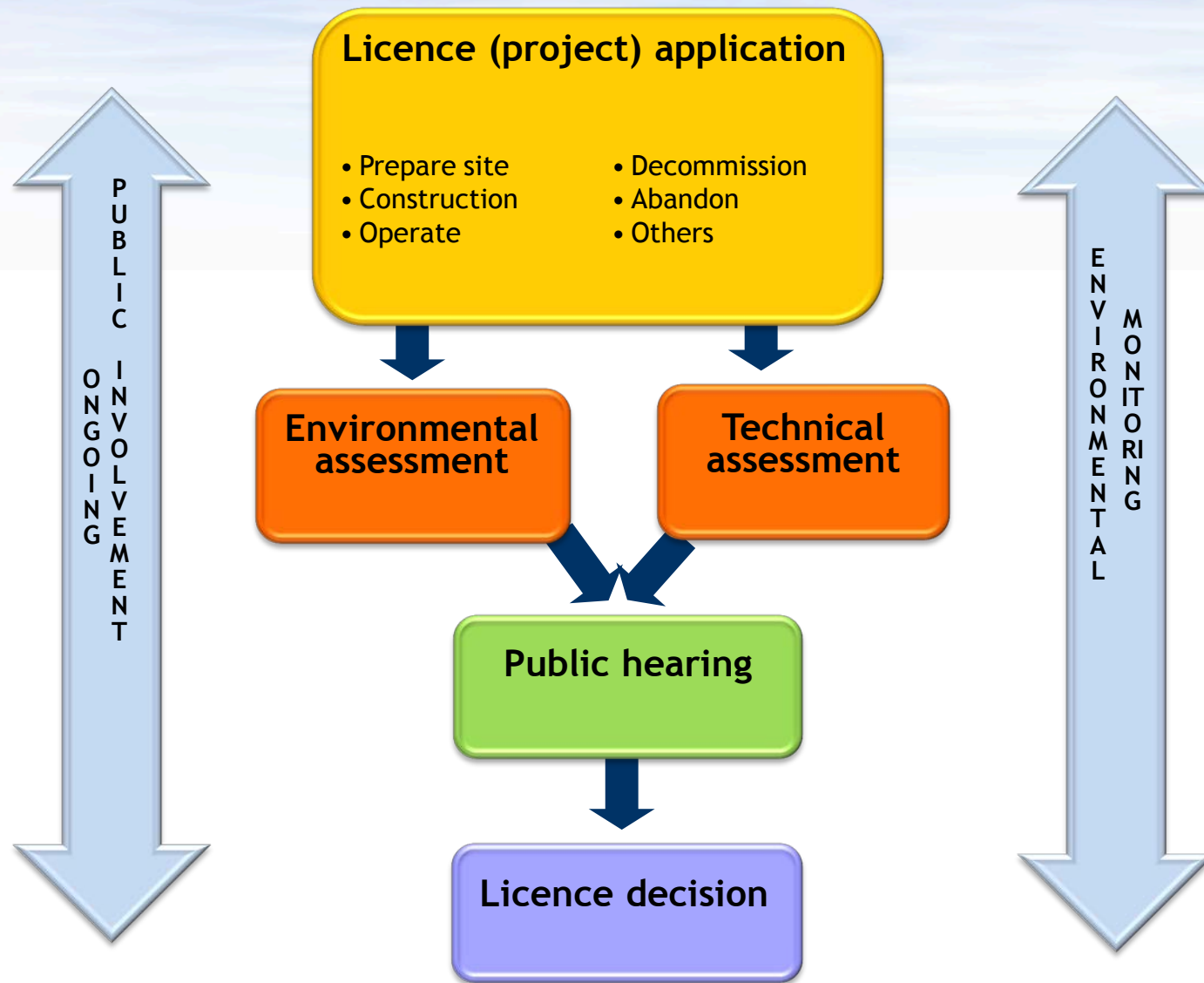
- Effective legislation and regulations provide robust, yet flexible regulatory oversight for nuclear safety
- Regulatory documents provide greater clarity on requirements
- Clear, pragmatic and comprehensive CNSC licensing and compliance processes
- No changes needed to the Canadian regulatory framework for the three CNL major decommissioning projects







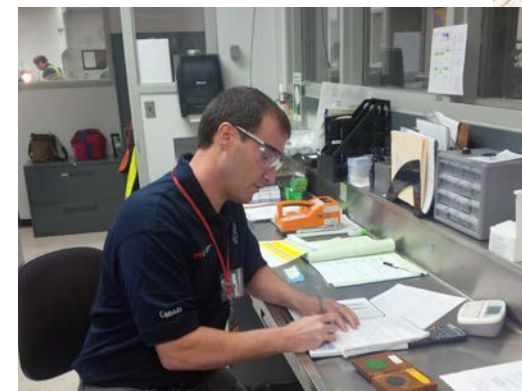
# CNSC Licensing Process





# Capacity for Regulatory Review

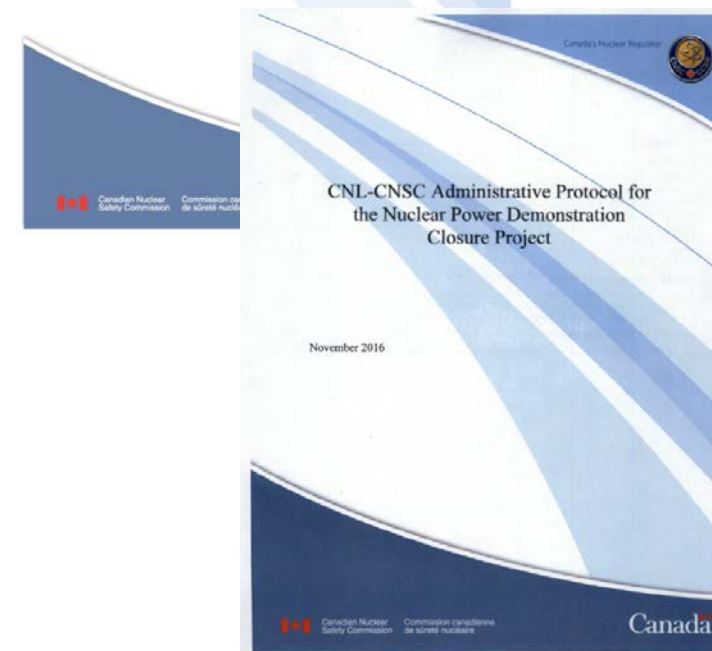
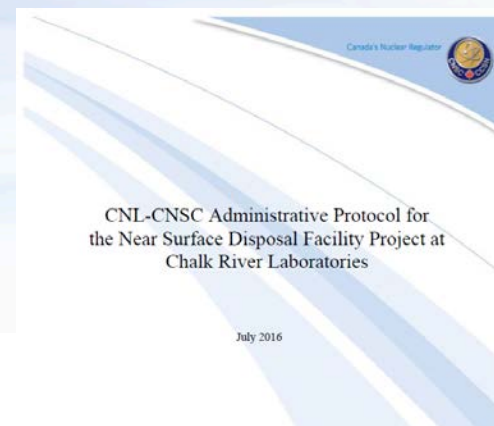
- Proper strategic planning and alignment
  - Regulatory work plans
  - Human and financial resource plans
- Maintaining regulatory focus
  - Environmental and technical assessments of projects
  - Continued regulatory oversight of current operations
- Matrixing resources
  - Integrated project management
  - Effective regulatory review governance
  - Dedicated expert regulatory team

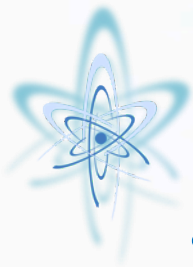




# Enabling Delivery of Results

- CNSC program and project management
  - Program charter
  - Technical assessment reference matrices
- Administrative Protocols between CNSC and CNL
  - Set out framework, milestones and service standards for environmental assessment and licensing
  - Transparent and predictable timelines
- Coordination with other federal agencies
  - Environment and Climate Change Canada
  - Health Canada





## Stakeholder Engagement

- Consultation with the public, Aboriginal peoples and non-government organizations (NGOs)
  - CNSC posts information on website and conducts public outreach activities
  - CNSC has a duty to consult with Aboriginal peoples
  - CNSC sets out requirements and guidance for licensee public information programs and Aboriginal engagement
- Regulatory process provides for public, Aboriginal and NGO participation in environmental and licensing decisions
- CNSC's Participant Funding Program





## Next Steps

- CNL to submit full environmental assessments and licensing applications to CNSC for the 3 major decommissioning projects in 2017 and 2018
- CNSC to complete the regulatory review of the 3 projects within the service standards and timeframes agreed to in the administrative protocols with CNL
- Commission decisions are required for authorization of the 3 projects, through public hearings planned in 2017 and 2018

***We will never compromise safety!***



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*We will never  
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