



Canadian Nuclear  
Safety Commission

Commission canadienne  
de sûreté nucléaire

# 65 Years of Nuclear Safety



## An Overview of the CNSC

August 16, 2011

**65<sup>TH</sup> ANNIVERSARY**  
**65<sup>E</sup> ANNIVERSAIRE**

# Canadian Nuclear Safety Commission

Regulates the use of nuclear energy and materials to protect the **health, safety and security** of Canadians and the **environment**; and to **implement** Canada's **international commitments** on the peaceful use of nuclear energy.



*Canada's nuclear watchdog*

# Canadian Nuclear Safety Commission

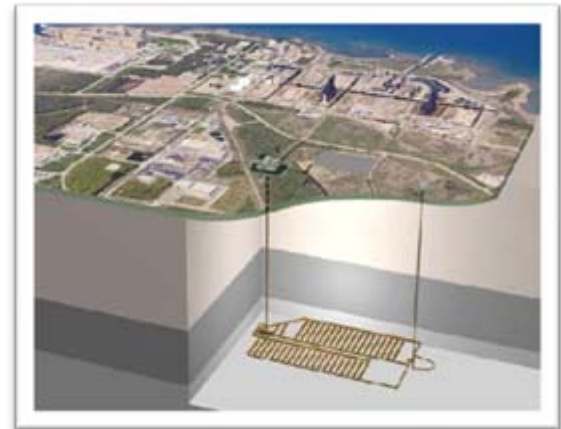
- Established May 2000, under the ***Nuclear Safety and Control Act***
- Replaced the AECB of the 1946 ***Atomic Energy Control Act***



*Celebrating our 65  
years of nuclear  
safety!*

# CNSC Regulates All Nuclear-Related Facilities and Activities

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



*...From Cradle To Grave*

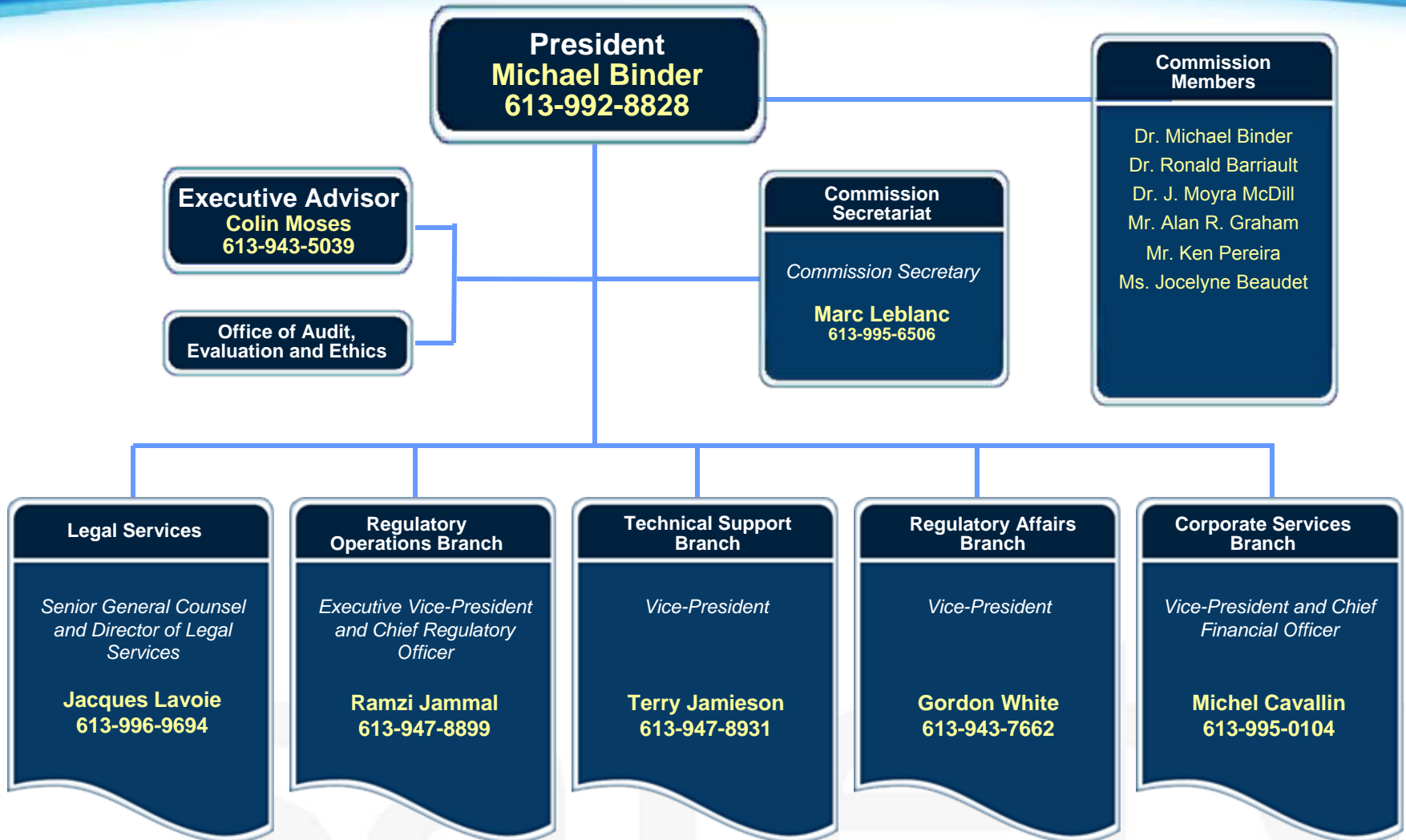
# Independent Commission

- Quasi-judicial administrative tribunal
- Reports to Parliament through Minister of Natural Resources Canada
- Commission members are independent
- Commission hearings are public and Webcast
- Decision can only be reviewed by Federal Court



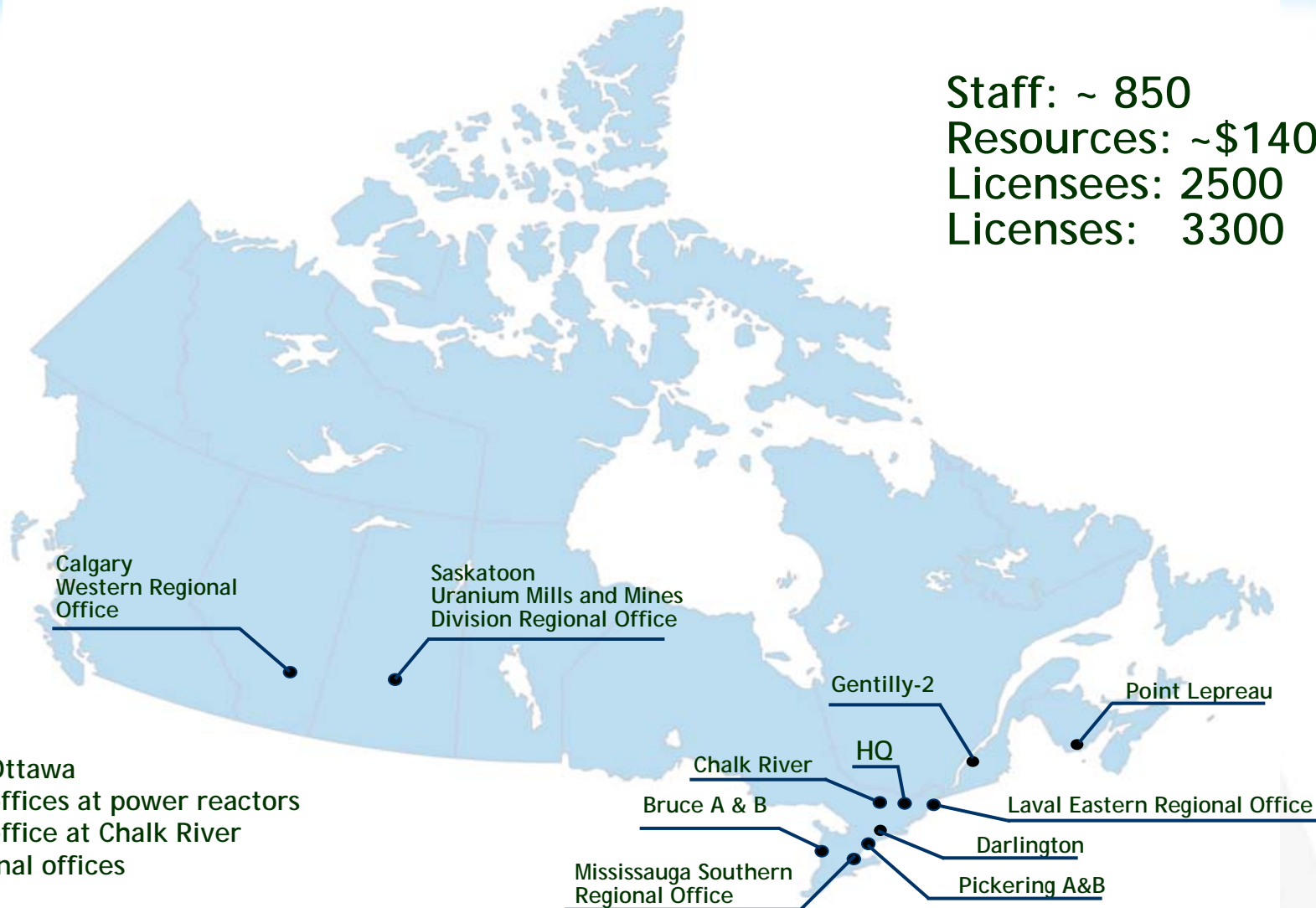
*Transparent, Science-based Decision-making*

# Executive Structure



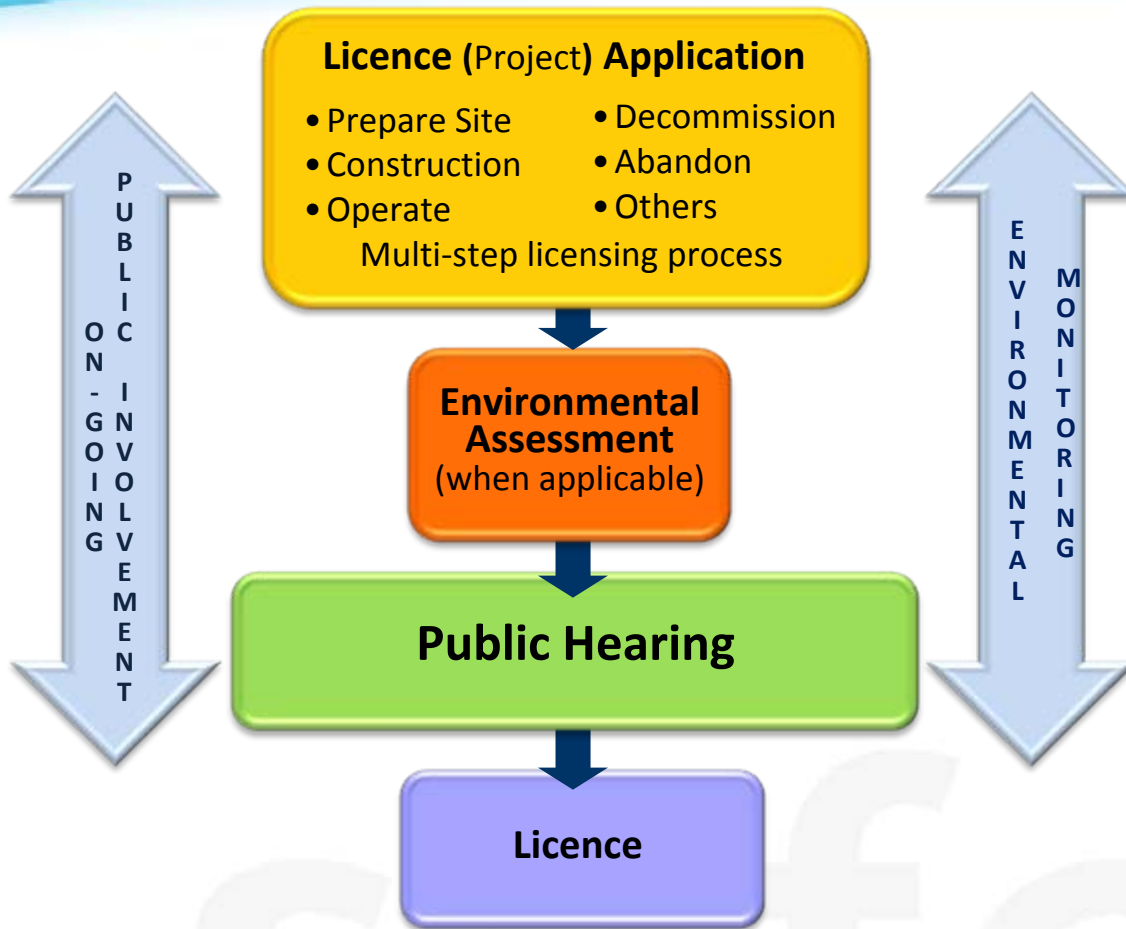
# CNSC Staff Located Across Canada

Staff: ~ 850  
Resources: ~\$140M  
Licensees: 2500  
Licenses: 3300



HQ in Ottawa  
5 site offices at power reactors  
1 site office at Chalk River  
4 regional offices

# CNSC Licensing Process



## CNSC oversight

- Licence Conditions
- Compliance Assurance: Inspections, Enforcement, Safety Culture

## Licensee obligations

- Health and Safety
- Environmental Protection
- Security
- Monitoring
- Reporting
- Financial Guarantee
- Proactive Disclosures

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# Environmental Assessment (EA)

- CNSC mandate includes protection of the environment
- EA is a process to predict the environmental effects of proposed projects before they are carried out
- Four types of EAs
  - screenings
  - comprehensive studies
  - review panels
  - mediation
- Public participation opportunities and Aboriginal consultation throughout EA and licensing processes

# The Role of the Regulator in Communication

- Safety / Transparency; Not Promotion
- Disseminate Objective Information
- Public Engagement and Aboriginal Consultation
- Focusing on Web-based information
- Hearings are webcasted (simultaneous French and English)
- Immediate response to public/ media concerns
- Renewed focus on communicating risk

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# CNSC and Aboriginal Consultation

- The CNSC consults with aboriginal groups whose rights may be affected by any activity the CNSC regulates
- The CNSC requires proponents to consult early and often
- The CNSC seeks to work with other federal, provincial, and/or territorial regulatory departments to assure effective consultation



# Fukushima-Daiichi Nuclear Power Plant

**March 11, 2011**

## **Earthquake and tsunami struck**

- Efforts continue to control situation
- Raised a number of issues

## **CNSC took action**

- Emergency Operations Centre activated
- Coordinated with federal agencies
- Issued order to all major nuclear facilities
  - review lessons learned
  - re-examine safety cases
  - take action and report

**A Wake-up Call For The Nuclear Sector**



# CNSC Response

## CNSC Internal Task Force

- Industry submissions being reviewed
- Report to the Commission Aug 10, 2011
- Recommendations by Sept 2011

## IRRS Review Follow-Up Mission

- Includes assessment of Canada's response to Fukushima – Nov 2011

## External Advisory Committee to CNSC

- Established Aug 2011
- Report in 2012

## Ongoing CNSC Web updates



*Transparent Process*

# Safety is the CNSC's Business

- 65 Years of nuclear safety
- Not resting on our strong track record
- Ready to respond to anything
- Always looking to continuously improve

*Unforeseen events can change our perspective*

We Will Never  
Compromise Safety



65<sup>TH</sup> ANNIVERSARY  
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[nuclearsafety.gc.ca](http://nuclearsafety.gc.ca)