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**Michael Binder**

**President, Canadian Nuclear Safety Commission**

**CNA 2011 Conference and Tradeshow**

**February 24, 2011 Ottawa**

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

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**Over the decades, the CNSC's vigilant presence as Canada's nuclear watchdog has ensured that our nuclear facilities and activities are among the safest and most secure in the world.**

*Prime Minister Stephen Harper*

**The CNSC has proven, without question, that it is ready to meet regulatory demand and to apply its experience and expertise to the changing regulatory environment in which it operates.**

*Minister of Natural Resources Christian Paradis*



1950

1960

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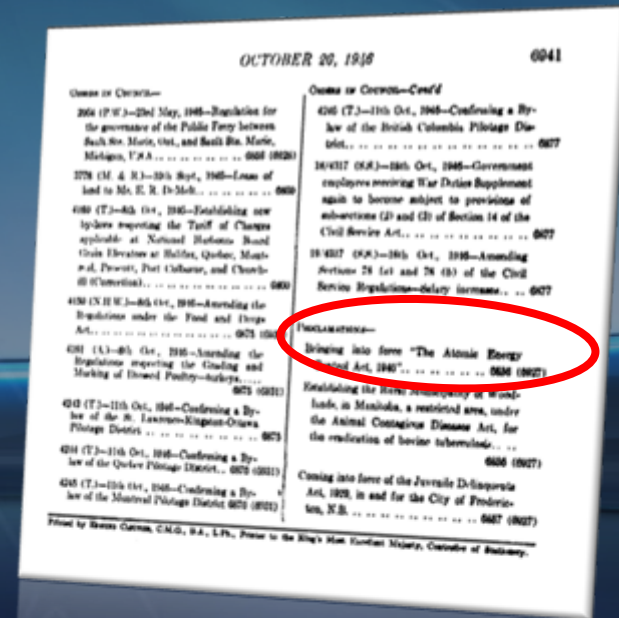
2010



# 1946 - the AECB is born...

## October 26, 1946

"... to make provision for the control and supervision of the development, application and use of atomic energy and to enable Canada to participate effectively in measures of international control of atomic energy."



# ...when the Atomic Energy Control Act is proclaimed





# The 1950s, 60s, and 70s...

## Brought advancements

1954 - AECB separates from AECL and Eldorado

1962 - Rolphton built, focus shifted to NPPs

1966 - Pickering begins construction

1979 - Mine and mill workers required to use dosimeters

## ... and built the regulatory foundation





# During the 1980s, 90s and 2000s...

**1983 - New packaging and transport regulations**

**1985 - AECB proceedings made public**

**2000 - First public hearings held**

**2001 - Post-9/11 security requirements**

**2000s - The Renaissance?**

**...gaining experience**



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# Current Environment Internationally

- Obama – nuclear equals clean energy
- S. Korea, India, China, and Russia continue to build
- EU Energy Accord promotes nuclear as clean technology

## NPPs Under Construction

India	4
South Korea	5
Russia	11
China	23
<b>Total</b>	<b>43</b>

Source: World Nuclear Association, "World Nuclear Power Reactors and Uranium Requirements," June 1, 2010 and [www.iaea.org](http://www.iaea.org) (August 26, 2010)

## Start of the Renaissance?





# Current Environment in Canada

- **NPP new build**
- **AECL restructuring**
- **Ontario Long-term Energy Plan**
  - **\$87b including \$33b for nuclear**
- **Public concern**

**A Lot of Uncertainty and Challenges**





CNSC  CCSN 2046

**But what might the  
future look like on our  
100th anniversary?**

**2046**





# Assumption...

- Nuclear seen as secure and clean source of electricity
- Nuclear a leader among a wide range of power sources
- New build NPPs and small modular reactors
- Canada one of the top producers of uranium in the world
- Nuclear medicine key player in diagnostics and treatment
- Permanent nuclear waste facilities – operational

...renaissance is real

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**Your decisions,  
not mine, will determine  
this future**

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# CNSC is preparing for the future...

- Core functions (licensing and compliance)
- Renewed Research Agenda
- Modernizing regulatory documents
- Right people for the right jobs

...ensuring best regulatory framework

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# CNSC is engaging Canadians

- Public outreach and Aboriginal consultation
- Importance of social responsibility
- Proactive disclosure
- Dissemination of science based information

## Industry – Where are you?

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2010



**We Will Never  
Compromise  
Safety...**

**...It's In Our DNA!**



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Canada 