



Canadian Nuclear  
Safety Commission

Commission canadienne  
de sûreté nucléaire

Canada



***Nuclear in a Low-Carbon  
Future:  
Moving Forward within a  
Strong Regulatory Framework***



**Michael Binder, President  
Canadian Nuclear Safety Commission  
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**Presentation to the Canadian Nuclear Association  
2016 Conference and Trade Show**

# *2015 was a big year at the CNSC...*

Bruce and Darlington licence renewal hearings

- ‡ JRP Report on OPG's DGR submitted to Minister of Environment for decision
- ‡ Post-Fukushima CNSC Integrated Action Plan was completed at all major nuclear facilities

*...setting the stage*

# *2015 was a big year at the CNSC...*

- Export licence provided for Canada's first uranium shipment to India
- AECL /CNL restructuring finalized
- Pre-distribution of KI pills near nuclear generating stations

*...setting the stage*

# *2015 was a big year at the CNSC...*

- Progress in modernizing the CNSC regulatory framework
- Invested significant efforts in going directly to communities to disseminate scientific information



*...setting the stage*

# *And a year of change in Canada...*

The new government has brought in new areas of focus :

1. Science-Based Decisions
2. Indigenous Relations
3. Environmental Reviews
4. *Climate Change*



*...altering course*

# *CNSC is already well on its way...*

## 1. Science-Based Decisions

- 800+ professional staff, including scientific and technical experts

## 2. Indigenous Relations

- Aboriginal Engagement REGDOC

## 3. Environmental Reviews

- Thorough environmental assessment process in place
- Independent Environmental Monitoring Program

*...and ahead of the curve*

# *Can nuclear play a significant role in the global fight against climate change?*

*Nuclear energy is “...among the energy sources and technologies available today that could help meet the climate-energy challenge.”*

IAEA, Climate Change and Nuclear Power 2015

*“It is wrong to pit renewables against nuclear power. We need all hands on deck.”*

Dr. James Hansen



# *Can nuclear play a significant role in the global fight against climate change?*

Not my decision, but yes, so long as:

- Public considers nuclear to be safe and secure
- Global nuclear industry operates within strong regulatory frameworks



# *Ensuring safety and security at home...*

- We need to continue enhancing safety, security and environmental protection in Canada's nuclear industry
  - In 2015, Canada hosted OSART and IPPAS missions
  - CNSC is conducting a review of the methodology for developing multi-unit-site probabilistic safety assessments
  - Canada's regulatory framework is ready for new technologies (e.g. interest, letter of intent and service agreement from SMR vendors for design reviews)

*...70 years of nuclear regulation in Canada*

# *What keeps me up at night...*

- The nuclear world is changing
  - Some regions are expanding rapidly
  - Other countries are entering the nuclear world for the first time
  - There are new turnkey model proposals for the construction and operation of power plants
- Do new nuclear nations have the tools to establish an effective regulatory framework?



*...is what may be happening in other countries*

# *Encouraging safety and security around the globe...*

- An accident anywhere is an accident everywhere
- We all need to press for greater global accountability and transparency
- CNSC will not participate in IAEA peer review missions where the reviews and follow-ups are not made public

*...through greater accountability and transparency*

# *What to watch for in the year ahead...*

- Increased clarity of regulatory requirements through publication of additional REGDOCs
- Gentilly-2: first long-term decommissioning of a CANDU 6 power reactor
- Port Hope: remediation and relicensing
- CNL: CRL licence amendment hearing (NRU)

# Engaging with the public through...

70<sup>th</sup> anniversary social media campaign



CNSC's historical timeline

2016 Roadmap



...70<sup>th</sup> anniversary campaign

*Thank you*  
*Questions?*



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