



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...

70th anniversary social media campaign



CNSC's historical timeline

2016 Roadmap



...70th anniversary campaign

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Questions?



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