

Canadian Nuclear Safety Commission / Commission canadienne de sûreté nucléaire

*International Cooperation*  
**A Canadian Regulator's Perspective**

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 Canadian Nuclear Safety Commission  
 North Bethesda, Maryland  
 March 9, 2010

[nuclearsafety.gc.ca](http://nuclearsafety.gc.ca)




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**Our Mission Is Clear**



Protect the *health, safety* and *security* of Canadians as well as the *environment*, and respect Canada's *international commitments* on the peaceful use of nuclear energy.

*Regulating the nuclear industry for 64 years!*



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**Canada: A Nuclear Pioneer**

- Said no to nuclear weapons
- Said yes to peaceful applications: power, scientific and industrial
- Unique technology- CANDU/Natural Uranium

*No need for enrichment or fuel banks*




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## Requirements to join the club...



- Comprehensive legislation
- Independent regulator
- Competent staff and adequate resources
- Pursuit of excellence
- International safeguards
- International cooperation



*The Canadian model*

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## Comprehensive Legislation



The CNSC regulates all nuclear facilities and activities in Canada including:

- nuclear power plants
- uranium mines and mills
- nuclear substance fabrication and processing facilities
- industrial applications
- nuclear medicine and cancer treatment centres
- research and educational facilities
- import/export of nuclear substances, equipment and technology
- waste management facilities

*...From Cradle To Grave*

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## Independent Commission



- Quasi-judicial administrative tribunal
- Commissioners are independent
- Commission hearings are public and Webcast
- Supported by a Secretariat and independent legal services



*Transparent Decision-making*

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## Scientific, Technical, Professional Staff



50% of our technical and operational staff have PhD or master's, or are professional engineers

- Nuclear
- Chemistry
- Physics
- Mathematics
- Biology
- Environmental Sciences

*Qualified, competent and dedicated*



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## Pursuit of Excellence



- Commitment to ongoing improvements
- Clarity of requirements
- Capacity for action
- Communications

*IAEA Integrated Regulatory Review Service mission confirms we're on track!*



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## Commitment to Non-proliferation



- Strict control on nuclear material, equipment and information to ensure peaceful uses
- Strong implementation of Nuclear Non-Proliferation Treaty, comprehensive safeguards agreement and Additional Protocol...
- ...supported by IAEA verification



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## Many Countries Accepted the Canadian Model



### 48 CANDU-type reactors around the world

- Argentina: 1 (1 under construction)
- Canada: 22
- China: 2
- India: 16 (2 under construction)
- Romania: 2
- South Korea: 4
- Pakistan: 1



International extension of Canada's safety mandate

*Canada Stands Behind What It Sells*

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## CNSC Regulatory Assistance



### Three phases:

1. Engage regulator's management in buyer country
2. Assist with regulatory framework on-site
3. Train the trainers

Ongoing support through CANDU senior regulators' meetings

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## Tomorrow: Renaissance?



- New designs, innovative technologies
- Enhanced relationships between regulators, e.g. IAEA, NEA, MDEP
- International standards and harmonization
- Shared responsibility for global safety and security
- Need new approaches to non-proliferation and code of conduct for vendors



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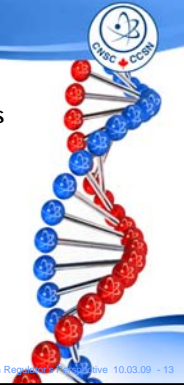
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## Concluding Remarks

- Canada has excellent legislative, policy and regulatory frameworks and programs
- Regulators have responsibilities toward customer countries
- Canada supports international cooperation in the area of nuclear safety

*Safety: it's in our DNA!*



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