



Canadian Nuclear
Safety Commission

Commission canadienne
de sûreté nucléaire

Regulating the Nuclear Industry: Post-Fukushima



Michael Binder

President, Canadian Nuclear Safety Commission

Cameco Board Meeting

Saskatoon, Saskatchewan

August 3, 2011

65TH ANNIVERSARY
65^E ANNIVERSAIRE

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

Cameco responded to the order

A Wake-up Call For The Nuclear Sector

International Response – Over Reaction?

- IAEA Ministerial Meeting on Nuclear Safety - June 20-24/11
- IAEA General Conference in Vienna - Sept 19-23
- UN General Assembly Nuclear Summit in New York - Sept 22-23
- Special Meeting of the Convention on Nuclear Safety - Aug 2012
- Proposed Lessons Learned Conference in Japan - Later 2012
- IAEA Conference in Ottawa, Canada – Spring 2013
- Canadian positions:
 - Strengthen peer reviews
 - Increase cooperation with WANO

Next Step - Development Of Action Plan By The IAEA

IAEA DG Amano's five-point plan

Major elements of plan:

1. Strengthen nuclear safety standards
2. Systematically review safety of all nuclear power plants, including expanding the IAEA's program of expert peer reviews
3. Enhance effectiveness of national nuclear regulatory bodies and ensure their independence
4. Strengthen global emergency preparedness and response system
5. Expand the Agency's role in receiving and disseminating information



CNSC Response

CNSC Internal Task Force

- 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

Canadian Uranium Mines / Mills

Active projects (all in Saskatchewan)

- Key Lake Mill (Cameco)
- McArthur River Mine (Cameco)
- Rabbit Lake Mine/Mill (Cameco)
- McClean Lake Mines/Mills (AREVA)

Under Construction

- Cigar Lake Mine (Cameco)

Proposed Projects

- Midwest Mine (N. Sask.) (AREVA)
- Kiggavik Project (Nunavut) (AREVA)
- Matoush (Quebec) (Strateco)
- Millennium Project (N. Sask.) (Cameco)
- Michelin Project – Aurora (Labrador) (Paladin)



Meeting World Demand, But Will All Projects Proceed?

Uranium Mines and Mills: Recent Consultations/Publications

RD-370 – Management of Uranium Mine Waste Rock and Mill Tailings

- First consultation: July 28 to August 31, 2011
- Second consultation: Sept 16 to Sept 30, 2011
- Commission presentation: Feb 2012
- Publication: April 2012

RD-99.3 – Requirements for Public Information and Disclosure

- First consultation: Nov 8 to Dec 17, 2010
- Second consultation: Jan 5 to Feb 4, 2011
- Commission presentation: Aug 11, 2011

Draft Effluent Charter – Nov 2011

Clarifying Requirements

Cameco Mines/Mills Update

McArthur River Mine

- June 9, 2011 Commission meeting on mid-term licence review

Key Lake Mill

- June 9, 2011 Commission meeting on mid-term licence review
- Aug 2011 Environmental Impact Statement (EIS) Guidelines for extension
- EIS completed by Q2 2012?

Rabbit Lake Mine/Mill

- May 2011, EIS Guidelines for Eagle Point Water Management project - approved
- June 9, 2011, Commission meeting on mid-term licence review
- Dec 2011 – EIS expected to be submitted to CNSC

Cigar Lake Mine

- Sept 14, 2011 Commission meeting on mid-term licence review

Millennium Mine

- Sept 2010 – EIS Guidelines approved by CNSC (Participant Funding provided by Canadian Environmental Assessment Agency)
- 2012 - Cameco currently working on EIS submission

Beaverlodge Mine/Mill

- Update to Commission Nov 2011

Cameco – Other Licence Activities

Blind River Refinery

- Licence Renewal - Nov 2011 and Jan 2012

Port Hope Conversion Facility

- Public Open House - Sep 22
- Licence Renewal - Nov 2011 and Jan 2012

Cameco Fuel Manufacturing

- Licence Renewal - Nov 2011 and Jan 2012
- All three have PFP

Vision in Motion

- Mar 2011 - EIS submitted and under review by CNSC staff
- Sep 22, 2011 - Public Open House in Port Hope for EIS

Port Hope Area Initiative

- Oct 2009 - Licence issued
- Public hearing - Feb 2012

Port Granby Project

- Aug 2009 - EA approved
- Public hearing - Sep 27, 2011



CNSC - Other Challenges

- Darlington new build – JRP Report Aug 2011
- G-2 refurbishment decision – 2011
- Point Lepreau restart – 2012
- Deep Geologic Repository
- *Nuclear Liability and Compensation Act*
- Small reactors
- Continue to modernize our regulatory framework
- Outreach to public



In Context Of Skeptical Post-fukushima Public

The Ottawa Scene

New majority federal government

- Minister of Natural Resources, Honourable Joe Oliver

Jobs and Economic Growth Act

- EA authorities/PFP launched Spring 2011

Federal government initiatives

- Strategic Operating Review/fiscal restraint
- Red Tape Reduction Commission
- Review of Major Projects Management Office

AECL sale

- Chalk River 5 year licence renewal
- National Nuclear Laboratory?
- SNC Lavalin

Court cases

- Steam generators
- Environment Canada – hydrazine
- McClean Lake



Further Topics for Discussion

Lessons learned post-Fukushima

- What's next?

Uranium mining outreach

- What role for industry outside of Saskatchewan?
- Nunavut, Northern Quebec, Labrador
- Public Disclosure

International issues

- Altona incident
- Memoranda of Understanding
 - Interest from nuclear regulators in Mongolia, India, Kazakhstan, China
- Convention on Nuclear Safety

Administrative agreement with Saskatchewan



In Looking to the Future, We Must Not Forget the Past!

65TH Anniversary
Historical Timeline

Andrew G.L. McNaughton	Chalmers J. MacKenzie	George C. Laurence	Donald G. Hurst	Alan Prince	Jon H. Jennekens	René J. Lévesque	Agnes J. Bishop	Linda J. Keen	Michael Binder
1946-1948	1948-1961	1961-1970	1970-1975	1975-1978	1978-1987	1987-1994	1994-2001	2001-2008	2008-Present

Timeline Instructions

To Begin, click on one of our Presidents' portraits to view the events in the CNSC's timeline relating to that President's time in office. A search function is also available at the top right of the screen to search for specific topics. Alternatively, click on one of the icons at the bottom to move to a different section.

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We Will Never
Compromise Safety



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