



Canadian Nuclear
Safety Commission

Commission canadienne
de sûreté nucléaire

Summary Record of Proceedings and Decision

In the Matter of

Applicant Cameco Corporation

Subject Application to Renew the Class IB Nuclear Fuel
Facility Operating Licence for the Port Hope
Conversion Facility

Public Hearing
Dates November 3, 2011 and January 17 & 18, 2012

SUMMARY RECORD OF PROCEEDINGS

Applicant: Cameco Corporation

Address/Location: 2121-11th Street West, Saskatoon, Saskatchewan S7M 1J3

Purpose: Application to renew the Class IB Nuclear Fuel Facility Operating Licence for the Port Hope Conversion Facility

Application received: April 15, 2011

Dates of public hearing: November 3, 2011 (Day-1) and January 17 & 18, 2012 (Day-2)

Location: Day 1: Canadian Nuclear Safety Commission (CNSC) Public Hearing Room, 280 Slater St., 14th. Floor, Ottawa, Ontario
Day 2: Town Park Recreation Centre, 62 McCaul Street, Port Hope, Ontario

Members present: M. Binder, Chair R. J. Barriault
A. Harvey M. J. McDill
D.D. Tolgyesi

Secretary: M. Leblanc
Recording Secretary: M. Young
General Counsel: L. Thiele

Applicant Represented By			Document Number
<ul style="list-style-type: none"> • A. Thorne, Vice-President, Fuel Services Division • D. Clark, General Manager, Port Hope Conversion Facility • R. Peters, Superintendent, Compliance and Licensing • C. Leavitt, Union President • A. Kodarin, General Manager, Cameco Chemical Fuel Manufacturing 			CMD 11-H16.1 CMD 11-H16.1A CMD 11-H16.1B CMD 11-H16.1C
CNSC staff			Document Number
<ul style="list-style-type: none"> • P. Elder • B.R. Ravishankar • R. Barker • K. Mann • R. Jammal 	<ul style="list-style-type: none"> • C. Purvis • M. Rinker • P. Thomsson • M. Ilin • D. Howard 	<ul style="list-style-type: none"> • J. Jaferi • S. Lei • K. Bundy • S. Faille 	CMD 11-H16 CMD 11-H16.A CMD 11-H16.B

Other Representatives
<ul style="list-style-type: none">• Municipality of Port Hope, represented by Mayor L. Thompson• Emergency Management Ontario, represented by D. Nodwell, K. Bleyer and L. Webb• Ministry of Environment, represented by J. Martherus, G. Faaren, N. Dyck, M. Dixon and V. Castro• Office of the Fire Marshall, represented by O. Lamerz
Intervenors
See appendix A

Licence: Renewed

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Introduction

1. Cameco Corporation (Cameco) has applied to the Canadian Nuclear Safety Commission¹ for the renewal of the Nuclear Fuel Facility Operating Licence (FFOL) for its Port Hope Conversion Facility located in Port Hope, Ontario. The current operating licence FFOL-3631.0/2012 expires on February 29, 2012. Cameco has applied for the renewal of this licence for a period of five years.
2. The Port Hope Conversion Facility is located within the Municipality of Port Hope, Ontario, situated on the north shore of Lake Ontario, approximately 100 km east of the city of Toronto, Ontario. The facility primarily converts uranium trioxide (UO₃) powder produced by Cameco's Blind River Uranium Refining Facility to uranium dioxide (UO₂), which is used to manufacture CANDU reactor fuel, and uranium hexafluoride (UF₆), which is exported for further processing into fuel for Light Water Reactors. In addition, there is a Specialty Metals plant, which has been used to cast uranium metal into shielding and counterweights for certain types of aircraft. The facility also includes recycling and decontamination capabilities along with a stand-by plant for further UO₂ production.
3. The facility comprises two sites. Site 1 consists of two areas situated between the railway viaducts and Lake Ontario, to the south of the main commercial and residential areas of the town. The first area borders the harbour and slip on the west side. The second area, the Centre Pier property, lies between the east side of the harbour and slip and the Ganaraska River. It has buildings used for storage of contaminated solid waste materials as well as an outside temporary storage facility for contaminated soils excavated from the municipal water treatment plant located to the west of Site 1.
4. Site 2 is located on Dorset St. East, a predominantly commercial/ industrial area in the east part of the town. There are two buildings on this site in which contaminated solid waste materials are stored.
5. During the current licence period, Cameco experienced a major event at the UF₆ plant that resulted in the halt of production operations for about 18 months. A uranium leak was discovered in the ground underneath the floor of the UF₆ plant in July 2007. This matter was discussed with the Commission at a Meeting in August 2007, soon after the event occurred, and again in November 2009, during a mid-term performance report to the Commission. The two plants have since resumed their operations after extensive onsite soil remediation and the installation of a site-wide groundwater remediation system.
6. Cameco requested that the licence conditions not change from its existing licence.

¹ The *Canadian Nuclear Safety Commission* is referred to as the "CNSC" when referring to the organization and its staff in general, and as the "Commission" when referring to the tribunal component.

Issues

7. In considering the application, the Commission was required to decide, pursuant to subsection 24(4) of the *Nuclear Safety and Control Act*² (NSCA):
 - a) if Cameco is qualified to carry on the activity that the licence would authorize; and
 - b) if, in carrying on that activity, Cameco would make adequate provision for the protection of the environment, the health and safety of persons and the maintenance of national security and measures required to implement international obligations to which Canada has agreed.

Public Hearing

8. The Commission, in making its decision, considered information presented for a public hearing held on November 3, 2011 in Ottawa, Ontario and January 17 & 18, 2012 in Port Hope, Ontario. The public hearing was conducted in accordance with the *Canadian Nuclear Safety Commission Rules of Procedure*³. During the public hearing, the Commission considered written submissions and heard oral presentations from CNSC staff (CMD 11-H16, CMD 11-H16.A and CMD 11-H16.B) and Cameco (CMD 11-H16.1, CMD 11-H16.1A, CMD 11-H16.1B and CMD 11-H16.1C). The Commission also considered oral and written submissions from 97 intervenors (see Appendix A for a detailed list of interventions). Representatives from the Ontario Ministry of the Environment, Emergency Management Ontario and the Office of the Fire Marshall were also available for questions.

Decision

9. Based on its consideration of the matter, as described in more detail in the following sections of this *Record of Proceedings*, the Commission concludes that Cameco is qualified to carry on the activity that the licence will authorize. The Commission is of the opinion that Cameco, in carrying on that activity, will make adequate provision for the protection of the environment, the health and safety of persons and the maintenance of national security and measures required to implement international obligations to which Canada has agreed. Therefore,

the Commission, pursuant to section 24 of the *Nuclear Safety and Control Act*, renews Cameco Corporation's Nuclear Fuel Facility Operating Licence for its Port Hope Conversion Facility located in Port Hope, Ontario. The renewed licence, FFOL-3631.0/2017, is valid from March 1, 2012 to February 28, 2017.

² Statutes of Canada, S.C. 1997, c. 9.

³ Statutory Orders and Regulations, S.O.R./2000-211.

10. The Commission includes in the licence the conditions as recommended by CNSC staff and set out in the draft licence attached to CMD 11-H16.B, with the following modifications:
 - The expiry date of the licence is changed to February 28, 2017.
 - Licence condition 4.4 is removed.

The Commission denies Cameco's request to retain existing licence condition 5.5 regarding the release of process waste water effluent. The Commission is of the view that Cameco has taken a positive step in removing these releases and encourages Cameco to avoid reverting to past practices. The Commission acknowledges the reasons for Cameco's request and notes that Cameco can apply for a licence amendment in the future if Cameco considers it absolutely necessary to resume this practice. The Commission expects that Cameco would submit a detailed proposal at that time.

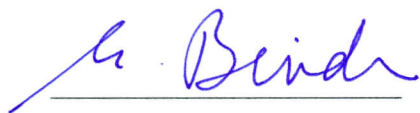
11. The Commission agrees with the delegation of authority as described in the LCH.
12. With this decision, the Commission directs CNSC staff to prepare an annual industry report that includes the results of compliance activities carried out during the licence period pertaining to this facility. The report should also include detailed information on emissions and the movement of the groundwater plume on the Port Hope Conversion Facility site. CNSC staff shall present their report at a public proceeding of the Commission, in the fall of each year.

Issues and Commission Findings

13. In making its licensing decision, the Commission considered a number of issues relating to Cameco's qualification to carry out the proposed activities and the adequacy of the proposed measures for protecting the environment, the health and safety of persons, national security and international obligations to which Canada has agreed.
14. The Commission determined that there was no requirement for an Environmental Assessment pursuant to subsection 5(1) of the *Canadian Environmental Assessment Act*⁴ (CEAA). The Commission is satisfied that all applicable requirements of the CEAA have been fulfilled.

⁴ S.C. 1992, c. 37.

15. The findings of the Commission will be presented in a *Record of Proceedings*, including *Reasons for Decision*, to be published at a later date.



FEB 28 2012

Michael Binder
President,
Canadian Nuclear Safety Commission

Date

Appendix A – Intervenors

Intervenors	Document Number
Lori Carter	CMD 11-H16.2
Debbie Hoselton	CMD 11-H16.3
Lake Ontario Waterkeeper	CMD 11-H16.4
Myron Szalawiga	CMD 11-H16.5
Gerald Crawford	CMD 11-H16.6
Junior Achievement Peterborough. Lakeland, Muskoka	CMD 11-H16.7
Jean-Pierre Pascoli	CMD 11-H16.8
Bill Edwards	CMD 11-H16.9
Cobourg Highland Games Society	CMD 11-H16.10
Marilyn Routly	CMD 11-H16.11
Jackie Brimblecombe	CMD 11-H16.12
Rachelle Torrieri	CMD 11-H16.13
United Steelworkers, Local 13173, represented by C. Leavitt and R. Davis	CMD 11-H16.14 CMD 11-H16.14A CMD 11-H16.14B
Ron Smith	CMD 11-H16.15
Mayor of the Town of Cobourg, represented by G. Brocanier	CMD 11-H16.16
Port Hope and District Chamber of Commerce	CMD 11-H16.17
Friends of Music	CMD 11-H16.18
Diane Flesch	CMD 11-H16.19
Gerhard Heinrich	CMD 11-H16.20
Bruce Cooper	CMD 11-H16.21
Municipality of Port Hope, represented by L. Thompson and C. Cannon	CMD 11-H16.22 CMD 11-H16.22A
E.S. Fox Ltd.	CMD 11-H16.23
Northumberland Players	CMD 11-H16.24
T.J. (Tim) Haynes Professional Corporation	CMD 11-H16.25
Suzanne Frankcom-Wright	CMD 11-H16.26
Cobourg Dragon Boat and Canoe Club	CMD 11-H16.27
Ed Lam	CMD 11-H16.28
All-Canadian Jazz Festival Port Hope	CMD 11-H16.29
Ron Davis	CMD 11-H16.30
Northumberland Sunrise Rotary	CMD 11-H16.31
Community Care Northumberland	CMD 11-H16.32
HMC Consulting	CMD 11-H16.33
Atomic Energy of Canada Limited, represented by C. Fahey and G. Case	CMD 11-H16.34 CMD 11-H16.34A
Eric Campbell	CMD 11-H16.35 CMD 11-H16.35A
Northumberland United Way	CMD 11-H16.36
John Morand	CMD 11-H16.37 CMD 11-H16.37A

Hannibal Farola	CMD 11-H16.38
Physicians for Global Survival, represented by L. Harvey	CMD 11-H16.39
Dan Rudka	CMD 11-H16.40
Christa Ingalls	CMD 11-H16.41
David Henderson	CMD 11-H16.42
Port Hope Figure Skating Club	CMD 11-H16.43
Michael Murchie	CMD 11-H16.44
Victor Allan Glover	CMD 11-H16.45
United Steelworkers Local 8562, represented by A. Lent	CMD 11-H16.46 CMD 11-H16.46A
Northumberland Manufacturers' Association	CMD 11-H16.47
Cobourg Waterfront Festival Central Board Directors, represented by P. Kulik	CMD 11-H16.48
Stephen F. Alexander	CMD 11-H16.49
Lou Rinaldi, former M.P.P., Northumberland-Quinte West	CMD 11-H16.50
Tim Seitz	CMD 11-H16.51
Canadian Nuclear Workers Council, represented by D. Shier, T. Fraser and G. McBride	CMD 11-H16.52
International Institute of Concern for Public Health (IICPH), represented by A. Tilman	CMD 11-H16.53 CMD 11-H16.53A
Lorne VanderDussen	CMD 11-H16.54
Northumberland Labour Council, represented by V. Salaverry	CMD 11-H16.55
Robert Jean	CMD 11-H16.56
Tom Fraser	CMD 11-H16.57
Northumberland Services for Women	CMD 11-H16.58
Pat McNamara	CMD 11-H16.59
McMaster University, represented by D. Boreham	CMD 11-H16.60 CMD 11-H16.60A
Gary McCracken	CMD 11-H16.61
Shane Watson	CMD 11-H16.62
United Brotherhood of Carpenters (Carpenters Union Local 397)	CMD 11-H16.63
Commissioners of the Port Hope Harbor	CMD 11-H16.64
Larry Johnston	CMD 11-H16.65
FishAbility Sports Club	CMD 11-H16.66
Joanne Rockey-Smith	CMD 11-H16.67
Chad Kavanaugh	CMD 11-H16.68
Nicole Emanuel	CMD 11-H16.69
Tom Lawson	CMD 11-H16.70
Marc Boucher	CMD 11-H16.71
Lori Gray	CMD 11-H16.72
The Friends of Wesleyville Village	CMD 11-H16.73
Thom Mambe	CMD 11-H16.74
Jack De Klerk	CMD 11-H16.75
Habitat for Humanity Northumberland	CMD 11-H16.76
Canadian Nuclear Association, represented by D. Carpenter and	CMD 11-H16.77

H. Kleb	
Graeme Lawson	CMD 11-H16.78
Sanford and Helen Anne Haskill	CMD 11-H16.79
Darryl Godfrey	CMD 11-H16.80
Patricia Lawson	CMD 11-H16.81
Derrick Kelly	CMD 11-H16.82
Ian McDonald	CMD 11-H16.83
Port Hope Community Health Concerns Committee, represented by F. More	CMD 11-H16.84
Families Against Radiation Exposure (FARE), represented by D. Kelly and K. Kamps	CMD 11-H16.85
John Wilcox	CMD 11-H16.86
Canadian Coalition for Nuclear Responsibility, represented by G. Edwards	CMD 11-H16.87
Steve Douglas	CMD 11-H16.88
Cobourg Community Centre	CMD 11-H16.89
Ron Moreau	CMD 11-H16.90
Capital Theatre Heritage Foundation	CMD 11-H16.91
Tyler Rouse	CMD 11-H16.92
Angelo Torrieri	CMD 11-H16.93
Jason Whitelaw	CMD 11-H16.94
Helen Caldicott	CMD 11-H16.95
Janet McNeill	CMD 11-H16.96 CMD 11-H16.96A
Ontario Clean Air Alliance	CMD 11-H16.97 CMD 11-H16.97A
East Toronto Youth Nuclear Group, represented by T. Waugh	CMD 11-H16.98