



Canadian Nuclear
Safety Commission

Commission canadienne
de sûreté nucléaire

Summary Record of Proceedings and Decision

In the Matter of

Applicant Bruce Power Inc.

Subject Application to Renew the Power Reactor
Operating Licences for Bruce A and Bruce B
Nuclear Generating Stations

Public Hearing
Dates February 5, 2015 and April 13-16, 2015

SUMMARY RECORD OF PROCEEDINGS

Applicant: Bruce Power Inc.

Address/Location: P.O. Box 1540, RR#2, Building B10, 177 Tie Road, Municipality of Kincardine, Tiverton, Ontario, N0G 2T0

Purpose: Application to Renew the Power Reactor Operating Licences for Bruce A and Bruce B Nuclear Generating Stations

Applications received: October 31, 2013

Dates of public hearing: February 5, 2015 and April 13-16, 2015

Location: Part 1: Canadian Nuclear Safety Commission (CNSC) Public Hearing Room, 280 Slater St., 14th. Floor, Ottawa, Ontario
 Part 2: Davidson Centre, 601 Durham Street, Kincardine, Ontario

Members present: M. Binder, Chair
 R. J. Barriault D. D. Tolgyesi
 M. J. McDill R. Velshi
 S. McEwan

Secretary: M. Leblanc
 Recording Secretaries: M. Hornof / M. Young
 Senior General Counsel: L. Thiele

Applicant Represented By		Document Number
<ul style="list-style-type: none"> • Duncan Hawthorne, President and Chief Executive Officer • Frank Saunders, Vice President, Regulatory Affairs • Gary Newman, Senior Vice President and Chief Engineer • Len Clewett, Executive Vice President and Chief Nuclear Officer • James Scongack, Vice President, Corporate Affairs • Paul Boucher, Station Vice President, Bruce A 		CMD 15-H2.1 CMD 15-H2.1A CMD 15-H2.1B CMD 15-H2.1C CMD 15-H2.1D
CNSC staff		Document Number
<ul style="list-style-type: none"> • R. Jammal • B. Howden • K. Lafrenière • P. Thompson • J. Stevenson 	<ul style="list-style-type: none"> • Y. Akl • A. McAllister • P. Lahaie • A. Bouchard • T. Jamieson 	CMD 15-H2 CMD 15-H2.A CMD 15-H2.B CMD 15-H2.C CMD 15-H2.D

<ul style="list-style-type: none"> • G. Frappier • R. Awad • S. Lei • K. Francis • C. Ducros • V. Tavasoli • S. Gyepi-Garbrah 	<ul style="list-style-type: none"> • R. Kameswaran • J. Jin • E. Fortier • M. Fabian • C. Harwood • U. Menon • S. Demeter (Consultant) 	
Intervenors		Document Number
See appendix A		
Others		
<ul style="list-style-type: none"> • Fisheries and Oceans Canada: T. Hoggarth and J. Wright • Environment Canada: N. Ali and D. Kim • Office of the Fire Marshal and Emergency Management Ontario: T. Kontra, A. Suleman and D. Nodwell • H. Lynn, Medical Officer of Health, Grey Bruce Health Unit 		

Licence: Renewed

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INTRODUCTION

1. Bruce Power Inc. (Bruce Power) has applied to the Canadian Nuclear Safety Commission¹ (CNSC) for the renewal of the Power Reactor Operating Licences (PROLs) for the Bruce Nuclear Generating Stations (NGS) A and B (Bruce A and Bruce B), located in the Municipality of Kincardine, Ontario. The current operating licences, PROL-15.00/2015 and PROL-16.00/2015, both expire on May 31, 2015. Bruce Power has requested a renewal of the licences for a period of five years. This renewal considers current facility operations only; refurbishment activities were not considered in the context of this hearing.
2. This *Summary Record of Proceedings and Decision* provides a summary of the Commission's consideration and decision on this matter, with reasons to follow in the detailed *Record of Proceedings, Including Reasons for Decision*, to be published at a later date.
3. Bruce A and B comprise eight 904-megawatt Canada Deuterium Uranium (CANDU) reactors and their associated equipment (Units 1-4 at Bruce A and Units 5-8 at Bruce B). Both Bruce A and B are owned by Ontario Power Generation Inc. and are located on the Bruce Nuclear Power Development site. They have been operated by Bruce Power under a lease agreement since 2001.
4. Bruce A and B were previously licensed until October 31, 2014. On April 24, 2014, the Commission granted applications from Bruce Power to renew the PROLs until May 31, 2015,² to ensure that all relevant documentation was available in order to facilitate more meaningful public participation at the renewal hearing.
5. On July 4, 2014, Bruce Power applied to the Commission for approval to operate Bruce B Units 5 and 6 beyond 210,000 Equivalent Full Power Hours (EFPH). On September 16, 2014,³ the Commission approved the temporary operation of Bruce B Units 5 and 6 up to 245,000 EFPH, noting in its decision that this authorization was temporary and that the authorization for a longer term of operation would be considered in the context of this public renewal hearing. This renewal hearing considered Bruce Power's request to be authorized to operate the Bruce A and B Units 1-8 up to 247,000 EFPH, as this would ensure that all reactors would be able to operate through the requested licence period.
6. Bruce Power and CNSC staff are of the view that the Bruce A and B PROLs be renewed as a single licence, with one associated licence conditions handbook (LCH). The conditions with which Bruce Power must comply are set out in the proposed single

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.

² CNSC Record of Proceedings, Including Reasons for Decision – Bruce Power Inc., "Application to Amend the Bruce Nuclear Generating Stations A and B Power Reactor Operating Licences", April 24, 2015, e-Doc 4423908.

³ CNSC Record of Proceedings, Including Reasons for Decision – Bruce Power Inc., "Bruce Nuclear Generating Station B – Request for Approval to Operate Beyond 210,000 Equivalent Full Power Hours (EFPH)", September 16, 2014, e-Doc 4501441.

licence and further explained in the LCH.

7. In 2014, up to \$75,000 in funding to participate in the licence renewal process was made available to Aboriginal groups, not-for-profit organizations and members of the public through the CNSC's Participant Funding Program (PFP). A Funding Review Committee (FRC), independent of the CNSC, recommended that up to \$57,120 in participant funding be provided to 10 applicants, who were required, by virtue of being in receipt of the funding, to submit a written intervention and make an oral presentation at the public hearing.

Issues

8. In considering the application, the Commission was required to decide, pursuant to subsection 24(4) of the *Nuclear Safety and Control Act*⁴ (NSCA):
 - a) if Bruce Power is qualified to carry on the activity that the licence would authorize; and
 - b) if, in carrying on that activity, Bruce Power 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.
9. The Commission was also required to decide:
 - a) whether to renew the PROLs for Bruce A and B as a single licence, with one associated LCH; and
 - b) whether to authorize Bruce Power to operate the Bruce A and B Units 1-8 beyond 210,000 EFPH, up to a maximum of 247,000 EFPH.

Public Hearing

10. The Commission, in making its decision, considered information presented for a two-part public hearing held on February 5, 2015 in Ottawa, Ontario and on April 13-16, 2015 in the Municipality of Kincardine, Ontario. The public hearing was conducted in accordance with the *Canadian Nuclear Safety Commission Rules of Procedure*.⁵ During the public hearing, the Commission considered written submissions and heard oral presentations from CNSC staff (CMD 15-H2, CMD 15-H2.A, CMD 15-H2.B, CMD 15-H2.C, CMD 15-H2.D) and Bruce Power (CMD 15-H2.1, CMD 15-H2.1A, CMD 15-H2.1B, CMD 15-H2.1C, CMD 15-H2.1D). The Commission also considered oral and written submissions from 144 intervenors (see Appendix A for a detailed list

⁴ Statutes of Canada (S.C.) 1997, chapter (c.) 9.

⁵ Statutory Orders and Regulations (SOR)/2000-211.

of interventions). The hearing was webcasted live via the CNSC website, and video archives are available for a three-month period following this decision.

DECISION

11. Based on its consideration of the matter, the Commission concludes that Bruce Power is qualified to carry on the activity that the renewed licence will authorize. The Commission is of the opinion that Bruce Power, 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 the Power Reactor Operating Licences issued to Bruce Power Inc. as a single licence for both its Bruce Nuclear Generating Stations A and B, located in the Municipality of Kincardine, Ontario. The renewed licence, PROL-18.00/2020, is valid from June 1, 2015 until May 31, 2020, unless suspended, amended, revoked or replaced.

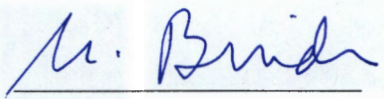
the Commission authorizes the operation of Bruce NGS A and B Units 1-8 up to a maximum of 247,000 Equivalent Full Power Hours.

12. The Commission includes in the licence the conditions as recommended by CNSC staff in CMDs 15-H2, 15-H2.B and 15-H2.D.
13. The Commission accepts CNSC staff's recommendation regarding the delegation of authority in the single Licence Conditions Handbook (LCH). The Commission notes that CNSC staff can bring any matter to the Commission as applicable. The Commission directs CNSC staff to inform the Commission on an annual basis of any changes made to the LCH.
14. The Commission notes that, while a single 5-year consolidated licence is issued to Bruce Power for Bruce A and B, Bruce Power's operations will be continuously monitored by the CNSC throughout the 5-year licence period. Furthermore, the Commission emphasizes that this licence can be suspended, amended, revoked or replaced at any time, should the need arise.
15. Refurbishment was not considered in the context of this hearing. The Commission wishes to be clear that, in the event of an application for refurbishment at the Bruce NGS, this application will be considered at a public proceeding with public participation. Additionally, the Commission notes that the licensee would be governed by Section 15.2 of the proposed PROL on this matter, and that the refurbishment

process would include an integrated safety review, the implementation and maintenance of a return-to-service plan, and periodic updates on the progress of the project and any proposed changes.

ISSUES AND COMMISSION FINDINGS

16. In making its decision, the Commission considered a number of issues relating to Bruce Power'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.
17. The Commission notes that an environmental assessment conducted under the NSCA and its Regulations was appropriate for this licence renewal. The Commission further notes that the CNSC regulatory framework ensures that adequate measures are in place to protect the environment and human health in accordance with the NSCA and its Regulations.
18. The findings of the Commission will be presented in a detailed *Record of Proceedings, Including Reasons for Decision*, to be published at a later date.



MAY 27 2015

Michael Binder
President,
Canadian Nuclear Safety Commission

Date

Appendix A – Intervenors

Intervenors	Document Number
Greenpeace Canada, represented by S. Stensil	CMD 15-H2.2 CMD 15-H2.2A CMD 15-H2.2B
Stewardship Grey Bruce	CMD 15-H2.3
Big Brothers Big Sisters of Kincardine & District	CMD 15-H2.4
Sustainability Toolkit, represented by S. Boles	CMD 15-H2.5
Saugeen Conservation, represented by W. Brohman	CMD 15-H2.6
Butterfly Gardens of Saugeen Shores	CMD 15-H2.7
Lake Huron Fishing Club, represented by M. Hahn	CMD 15-H2.8
Water Level Alliance Inc.	CMD 15-H2.9
Habitat for Humanity Grey Bruce	CMD 15-H2.10
Our Kids Bruce Grey Foundation	CMD 15-H2.11
Grey Bruce Sustainability Network	CMD 15-H2.12
The Martin Aboriginal Education Initiative	CMD 15-H2.13
Sheet Metal Workers International Association – Local Union 473	CMD 15-H2.14
Labourers’ International Union of North America (LIUNA)	CMD 15-H2.15
IBEW Local 804	CMD 15-H2.16
CTS North America	CMD 15-H2.17
Frank Greening	CMD 15-H2.18 CMD 15-H2.18A CMD 15-H2.18B
Grey Bruce Health Unit	CMD 15-H2.19
Green Feet Forests and Gardens	CMD 15-H2.20
Municipality of Brockton	CMD 15-H2.21
CANDU Owners Group	CMD 15-H2.22
Canadian Association of Nuclear Host Communities	CMD 15-H2.23
Georgian Bay Forever	CMD 15-H2.24
Green Party of Ontario	CMD 15-H2.25
Bluewater District School Board	CMD 15-H2.26
David Kidd	CMD 15-H2.27
Sat Khalsa	CMD 15-H2.28
Janey Edwards	CMD 15-H2.29
Christine Walker-Petriw	CMD 15-H2.30
Millwright Regional Council of Ontario	CMD 15-H2.31
Levitt-Safety Ltd.	CMD 15-H2.32
Lynn Horton	CMD 15-H2.33
Judith Gaglani	CMD 15-H2.34
Christian Vinogradov	CMD 15-H2.35
Kristen Traherne	CMD 15-H2.36
Rakka Gaglani	CMD 15-H2.37

Community Living Kincardine & District	CMD 15-H2.38
Philippe Gagnon	CMD 15-H2.39
Alberici Constructors	CMD 15-H2.40
Nordion, represented by S. McIntosh	CMD 15-H2.41
North American Young Generation in Nuclear, represented by A. Lee and O. Good	CMD 15-H2.42 CMD 15-H2.42A
Historic Saugeen Métis, represented by P. McArthur, G. Govier and R. Lamont	CMD 15-H2.43
Township of Huron-Kinloss, represented by M. Twolan	CMD 15-H2.44
AMEC Foster Wheeler, represented by M. Tulett	CMD 15-H2.45
Women in Nuclear Canada, represented by J. Shikaze and W. Huys	CMD 15-H2.46
JGRchem.inc., represented by J. Roberts	CMD 15-H2.47
Canadian Council for Aboriginal Business, represented by J.P. Gladu	CMD 15-H2.48 CMD 15-H2.48A
Lake Huron Centre for Coastal Conservation, represented by P. Scharfe	CMD 15-H2.49
Municipality of Kincardine, represented by A. Eadie	CMD 15-H2.50
Stefan Wesche	CMD 15-H2.51
University Network for Excellence in Nuclear Engineering (UNENE)	CMD 15-H2.52
Gail Reynolds	CMD 15-H2.53
Susan Wellisch	CMD 15-H2.54
Anna Mattiuzzo	CMD 15-H2.55
Justine Dainard	CMD 15-H2.56
Marie-Josée Yelle	CMD 15-H2.57
Anthony Wilson	CMD 15-H2.58
Liz Duchene	CMD 15-H2.59
Ernst Braendli	CMD 15-H2.60
Ipsos Reid Public Affairs, represented by M. Hrobsky	CMD 15-H2.61
Town of Saugeen Shores, represented by M. Smith and L. Allison	CMD 15-H2.62 CMD 15-H2.62A
Provincial Building & Construction Trades Council of Ontario, represented by P. Dillon and I. Delov	CMD 15-H2.63
Rev. Ruth MacLean	CMD 15-H2.64
GreenField Specialty Alcohols Inc., represented by T. Dodkin	CMD 15-H2.65
Glenn Sutton	CMD 15-H2.66
International Union of Operations Engineers Local 793	CMD 15-H2.67
Saugeen Shores Chamber of Commerce, represented by J. Robbins	CMD 15-H2.68
Canadian Nuclear Association, represented by J. Barrett	CMD 15-H2.69
Rhys Naylor	CMD 15-H2.70
Nancy Arcand	CMD 15-H2.71
Rick Zyraruk	CMD 15-H2.72
Christine Penner Polle	CMD 15-H2.73
United Way of Bruce and Grey	CMD 15-H2.74
Tim Seitz	CMD 15-H2.75
Joan Fahey	CMD 15-H2.76

David Lewis	CMD 15-H2.77
Kristine Hammel	CMD 15-H2.78
Gregory Whalen	CMD 15-H2.79
Carrie Watson	CMD 15-H2.80
Eric Snider	CMD 15-H2.81
Branda Preston	CMD 15-H2.82
Temara Brown	CMD 15-H2.83
Steve Cornwell	CMD 15-H2.84
SauGreen For The Environment Inc.	CMD 15-H2.85
Cameco Corporation	CMD 15-H2.86
Right to Play	CMD 15-H2.87
Peter Tabuns, MPP for Toronto-Danforth	CMD 15-H2.88
Sierra Club Canada Foundation	CMD 15-H2.89
Wounded Warriors Canada	CMD 15-H2.90
Peter Varty	CMD 15-H2.91
Ben Lobb, MP for Huron-Bruce	CMD 15-H2.92
Richard Sullivan	CMD 15-H2.93
GE Hitachi Nuclear Energy Canada Inc.	CMD 15-H2.94
Dana Laliberte	CMD 15-H2.95
Ontario Clean Air Alliance	CMD 15-H2.96
Gary Wilson	CMD 15-H2.97
Heather Church	CMD 15-H2.98
AREVA NP Canada Ltd.	CMD 15-H2.99
Bruce Peninsula Environment Group	CMD 15-H2.100 CMD 15-H2.100A
EnergyMobile Studios Inc.	CMD 15-H2.101
Dale Dewar	CMD 15-H2.102 CMD 15-H2.102A
Coalition for a Nuclear Free Great Lakes	CMD 15-H2.103
Carrie Lester	CMD 15-H2.104
Jo Hayward-Haines	CMD 15-H2.105
Michel Duguay	CMD 15-H2.106
Maryam Syeda	CMD 15-H2.107
Kincardine & District Chamber of Commerce, represented by L. Bowers	CMD 15-H2.108
Canadian Nuclear Society, represented by J. Plourde, C. Hunt and J. Roberts	CMD 15-H2.109 CMD 15-H2.109A
Anna Tilman and Eugene Bourgeois	CMD 15-H2.110 CMD 15-H2.110A
Canadian Nuclear Workers Council, represented by D. Shier, K. MacKay, H. Phorson	CMD 15-H2.111 CMD 15-H2.111A
Babcock & Wilcox Canada Ltd., represented by J. MacQuarrie,	CMD 15-H2.112
The Society of Energy Professionals, represented by S. Travers and M. Gade	CMD 15-H2.113

Chris Robinson	CMD 15-H2.114
EMC Power Canada, represented by C. Sauter and A. Cassidy	CMD 15-H2.115
NSERC Lake Whitefish Research Program, represented by J. Wilson, R. Manzon, R. Eberts and C. Thome	CMD 15-H2.116 CMD 15-H2.116A
Métis Nation of Ontario, represented by P. Richardson, A. Alibhai, C. Metallic and T. Sugarman	CMD 15-H2.117
Saugeen Ojibway Nation, represented by A. Monem, R. Kahgee, Chief V. Roote and S. Crawford	CMD 15-H2.118
Kinectrics Inc., represented by D. Harris	CMD 15-H2.119
Brant A. Ulsh	CMD 15-H2.120
Power Workers' Union, represented by B. Walker, D. Trumble and L. Alderdice	CMD 15-H2.121 CMD 15-H2.121A
Canadian Environmental Law Association, represented by T. McClenaghan and J. Dixon	CMD 15-H2.122 CMD 15-H2.122A CMD 15-H2.122B
Society of Professional Engineers and Associates, represented by M. Ivanco and P. White	CMD 15-H2.123 CMD 15-H2.123A
Canadian Association of Physicians for the Environment, represented by G. Forman	CMD 15-H2.124
Jutta Splettstoesser and P. Seccaspina	CMD 15-H2.125 CMD 15-H2.125A CMD 15-H2.125B CMD 15-H2.125C
New Clear Free Solutions, represented by C. Rouse	CMD 15-H2.126
Provincial Council of Women of Ontario, represented by G. Janes	CMD 15-H2.127
Janet McNeill	CMD 15-H2.128
Monica Whalley	CMD 15-H2.129
Chaitanya Kalevar	CMD 15-H2.130
Beyond Nuclear, represented by K. Kamps	CMD 15-H2.131 CMD 15-H2.131A
Canadian Coalition for Nuclear Responsibility, represented by G. Edwards	CMD 15-H2.132
John C. Luxat	CMD 15-H2.133 CMD 15-H2.133A
Northwatch	CMD 15-H2.134
Bruce Power Pensioners Association, represented by D. Mullaly	CMD 15-H2.135 CMD 15-H2.135A
Canadian Manufacturers & Exporters, represented by P. Clipsham	CMD 15-H2.136
Southwest Economic Alliance, represented by J.C. Grace	CMD 15-H2.137
Kinetic Knights Robotics, Team 781, represented by J. Courtney, D. Watterworth and A. Pagnan	CMD 15-H2.138
Bruce County Federation of Agriculture, represented by P. Jilesen	CMD 15-H2.139
Asthma Society of Canada, represented by R. Oliphant	CMD 15-H2.140
ASI Group Ltd., represented by C. Sferrazza	CMD 15-H2.141
SNC-Lavalin, represented by R. Whalen	CMD 15-H2.142

ATS Automation, represented by N. Bains	CMD 15-H2.143 CMD 15-H2.143A
South Bruce Grey Health Centre	CMD 15-H2.144
Sunil Nijhawan	CMD 15-H2.145 CMD 15-H2.145A CMD 15-H2.145B