



Canadian Nuclear
Safety Commission

Commission canadienne
de sûreté nucléaire

Summary Record of Proceedings and Decision

In the Matter of

Applicant Ontario Power Generation Inc.

Subject Application to Request a Removal of the Hold
Point for the Pickering Nuclear Generating
Station

Public Hearing
Date May 7, 2014

SUMMARY RECORD OF PROCEEDINGS

Applicant: Ontario Power Generation Inc.

Address/Location: 700 University Avenue, Toronto, Ontario, M5G 1X6

Purpose: Application to request a removal of the hold point for the Pickering Nuclear Generating Station.

Application received: February 3, 2014

Date of public hearing: May 7, 2014

Location: Canadian Nuclear Safety Commission (CNSC) Public Hearing Room, 280 Slater St., 14th. Floor, Ottawa, Ontario

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

Secretary: M.A. Leblanc
Recording Secretary: S. Dimitrijevic
General Counsel: L. Thiele

Applicant Represented By			Document Number
<ul style="list-style-type: none"> • B. Phillips, Senior Vice President • M. Elliott, Chief Nuclear Engineer • K. Dehdashtian, Manager of Pickering Public Affairs and Regulatory Affairs • K. Powers, Director of Public Affairs • L. Swami, Vice President, Nuclear Services • C. Lorencez, Director, Nuclear Safety • J. Coles, Director, Emergency Management and Fire Protection • R. Manley, Director, Nuclear Regulatory Affairs • P. Spekkens, Vice President of Science and Technology Development • C. Mathias, Legal Counsel 			CMD 14-H2.1 CMD 14-H2.1A CMD 14-H2.1B CMD 14-H2.1C
CNSC staff			Document Number
<ul style="list-style-type: none"> • G. Rzentkowski • M. Santini • P. Elder • J. Jin 	<ul style="list-style-type: none"> • R. Jammal • S. Yolaoui • G. Frappier • P. Thompson 	<ul style="list-style-type: none"> • L. Sigouin • Y. Akl • C. Purvis 	CMD 14-H2 CMD 14-H2.A CMD 14-H2.B CMD 14-H2.C
Intervenors			Document Number
See appendix A			
Others			
<ul style="list-style-type: none"> • Office of the Fire Marshal and Emergency Management: D Nodwell • Kinectrics: P. Lawrence 			

Hold point: Removed

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INTRODUCTION

1. Ontario Power Generation Inc. (OPG) has applied to the Canadian Nuclear Safety Commission¹ to request the removal of the regulatory hold point pursuant to licence condition 16.3 of the Power Reactor Operating Licence PROL 48.00/2018, issued for the Pickering Nuclear Generating Station (NGS). The facility is located in Pickering, Ontario and consists of eight CANDU pressurized heavy water reactors and their associated equipment. The current operating licence expires on August 31, 2018.
2. The Pickering NGS Power Reactor Operating Licence was renewed by the Commission after a public hearing held on February 20 and May 29 to 31, 2013². In its decision, the Commission did not accept CNSC staff's proposed delegation of authority to remove the regulatory hold point to allow OPG to proceed with Pickering NGS operation beyond 210,000 Equivalent Full Power Hours (EFPH). Instead, the Commission decided to consider this matter in a future proceeding of the Commission with public participation. The milestone limit of 210,000 EFPH is the assumed design life of the pressure tubes and is expected to be reached on Pickering NGS Unit 6 in June 2014.
3. As part of its decision, the Commission directed OPG to provide the following before the removal of the hold point could be approved:
 - the revised PSA for Pickering A that meets the requirements of CNSC Regulatory Standard S-294;
 - an updated PSA for both Pickering A and Pickering B that takes into account the enhancements required under the Fukushima Action Plan; and
 - a whole-site PSA or a methodology for a whole-site PSA, specific to the Pickering NGS site.
4. In addition, the Commission directed OPG to report, at the time of OPG's request to remove the hold point, on its analysis on filtered containment venting, as a future enhancement to protect containment through OPG's Fukushima Action Items.
5. The Commission further directed OPG to ensure, by the end of June 2014, the production of an emergency management public information document that would be distributed to all households in the Pickering area.
6. The Commission also directed CNSC staff to review the Pickering PSA methodology, and provide its recommendation for the Commission's consideration at the time of OPG's request for the release of the hold point.

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 *Record of Proceedings, Including Reasons for Decision*, in the matter of Application to Renew the Power Reactor Operating Licence for the Pickering Nuclear Generating Station, CNSC, August 9, 2013, Ottawa.

Issues

7. In considering the application, the Commission was required to decide if OPG has met all necessary pre-requirements and additional requirements associated with licence condition 16.3, including the Commission's requests for additional information as directed in the *Record of Proceedings* for the Pickering NGS licence renewal³.

Public Hearing

8. Pursuant to section 22 of the NSCA, the President of the Commission established a Panel of the Commission to review the application. The Commission, in making its decision, considered information presented for a hearing held on May 7, 2014 in Ottawa, Ontario. The public hearing was conducted in accordance with the *Canadian Nuclear Safety Commission Rules of Procedure*⁴. During the public hearing, the Commission considered written submissions and heard oral presentations from CNSC staff (CMD 14-H2, CMD 14-H2.A, and CMD 14-H2.B) and OPG (CMD 14-H2.1, CMD 14-H2.1A, and CMD 14-H2.1B). The Commission also considered written submissions from 55 intervenors (see Appendix A for a detailed list of interventions). The hearing was webcasted live via the CNSC website, and video archives are available for a three-month period following this decision.
9. Following the public hearing, further to request for ruling, the Commission provided a further opportunity to hearing participants to submit supplementary comments on the following documents:
 - Pickering A Risk Assessment Summary Report;
 - Pickering B Risk Assessment Summary Report; and
 - Pickering NGS Probabilistic Safety Analysis to Include Enhancements from the Fukushima Integrated Action Plan.

The Commission received and considered submissions from six intervenors, CNSC staff and OPG.

DECISION

10. The Commission is satisfied that OPG has met all necessary pre-requirements and additional requirements associated with licence condition 16.3, as directed in the *Record of Proceedings* for the Pickering NGS licence renewal, and the Commission's requests for additional information. Based on its consideration of the matter, the

³ CNSC *Record of Proceedings, Including Reasons for Decision*, "Ontario Power Generation Inc. – Application to Renew the Power Reactor Operating Licence for the Pickering Nuclear Generating Station", Public Hearing Dates: February 20 and May 29 to 31, 2013.

⁴ Statutory Orders and Regulations (SOR)/2000-211.

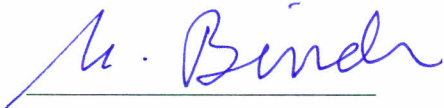
Commission is satisfied that OPG will continue to make adequate provision for the protection of the environment, the health and safety of persons and the maintenance of national security and measures required to implement international obligations to which Canada has agreed. Therefore,

the Commission removes the hold point associated with licence condition 16.3 of the Pickering Nuclear Generating Station Power Reactor Operating Licence, PROL 48.00/2018.

11. With this decision, the Commission allows OPG to proceed with Pickering NGS operation beyond 210,000 EFPH, up to 247,000 EFPH.
12. The Commission directs OPG to submit to the Commission a report on the detailed risk improvement plan for Pickering NGS. This report will be submitted two weeks before the Commission Meeting to be held in August 2014. The Commission also directs CNSC staff to present its review of the detailed risk improvement plan for Pickering NGS, as part of the annual *Integrated Safety Assessment of Canadian Nuclear Power Plants*, at the Commission Meeting to be held in August 2014. The detailed risk improvement plan shall encompass a combination of physical improvements, changes to operating procedures, and improvements to the PSAs, including but not limited to the improvements to plant design and improvements to the methodologies, as specified by CNSC staff and set out in the section 3.1 of the CMD 14-H2.C. The improvements will include additional Fukushima related actions as well as improvements identified through the PSA.
13. The Commission requests that the annual *2013 Integrated Safety Assessment of Canadian Nuclear Power Plants* include clear timelines for all aforementioned improvements and related activities. The Commission requests that these improvements be implemented as soon as possible.
14. The Commission requires increased monitoring, inspection and reporting by OPG and CNSC staff on the operation of the Pickering reactor units. The annual *Integrated Safety Assessment of Canadian Nuclear Power Plants* should include, every year, clear descriptions of measures implemented to enable the requested increased monitoring, inspection and reporting. The Commission further requests that this and future annual Integrated Safety Assessments and reports include updates to the Commission regarding enhancements of OPG's ageing management program, status of pressure tubes, feeder pipes and other safety issues, such as evolution of safety margins as the operation approaches the planned end of life of the facility.
15. The Commission expects annual reports to include the status of additional Fukushima related actions and improvements identified through the PSA, as well as clear timeline for the development and implementation of whole-site based safety goals and PSA methodology.

ISSUES AND COMMISSION FINDINGS

16. In making its decision, the Commission considered a number of issues and submissions relating to OPG's response to the Commission's requirements and criteria to be met before the removal of the hold point. The Commission also considered the adequacy of the proposed measures for protecting 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.
17. The findings of the Commission will be presented in a *Record of Proceedings*, including *Reasons for Decision*, to be published at a later date.



Michael Binder
President,
Canadian Nuclear Safety Commission

JUN 03 2014

Date

Appendix A – Intervenors

Intervenors	Document Number
Jerome Joseph	CMD 14-H2.2
Anna Wrona	CMD 14-H2.3
Tim Seitz	CMD 14-H2.4
Kathleen Chung	CMD 14-H2.5
Josefine Singh	CMD 14-H2.6
Monica Whalley	CMD 14-H2.7
Fanny Guilmet	CMD 14-H2.8
Marilyn McKim	CMD 14-H2.9
Chris Barry	CMD 14-H2.10
Pat Reed	CMD 14-H2.11
Frank Greening	CMD 14-H2.12 CMD 14-H2.12A CMD 14-H2.12B
Kelly Clune	CMD 14-H2.13
Tania Szablowski	CMD 14-H2.14
Linda Heron	CMD 14-H2.15
Brenda Thompson	CMD 14-H2.16
Klaus Dohring	CMD 14-H2.17
Jill Lennox	CMD 14-H2.18
The Society of Energy Professionals	CMD 14-H2.19
Robert C. Azzopardi	CMD 14-H2.20
Ivan Gallegos	CMD 14-H2.21
Dan Holtl	CMD 14-H2.22
Susan Holtz	CMD 14-H2.23
Mike Darmon	CMD 14-H2.24
Durham Nuclear Awareness	CMD 14-H2.25 CMD 14-H2.25A
Sarah Sherman	CMD 14-H2.26
Sheila-Marie Richardson	CMD 14-H2.27
Rachel Gldstone-Gelman	CMD 14-H2.28
Albert Pietersma	CMD 14-H2.29
Nonie French	CMD 14-H2.30
Canadian Environmental Law Association	CMD 14-H2.31
Gail Cockburn	CMD 14-H2.32
Ontario Clean Air Alliance	CMD 14-H2.33
Graham Lodge	CMD 14-H2.34
Michel A. Duguay	CMD 14-H2.35 CMD 14-H2.35A CMD 14-H2.35B

New Clear Free Solutions	CMD 14-H2.36 CMD 14-H2.36A CMD 14-H2.36B CMD 14-H2.36C
Colleen McLaren	CMD 14-H2.37
Louis Bertrand	CMD 14-H2.38
Linda Hicks and Family	CMD 14-H2.39
Zach Ruitter	CMD 14-H2.40
International Intitute of Concern For Public Health	CMD 14-H2.41 CMD 14-H2.41A
Parkcrest Tenants' Association	CMD 14-H2.42
Jeff Brackett	CMD 14-H2.43
Pickering West Shore Community Association	CMD 14-H2.44
Northwatch	CMD 14-H2.45
Carrie Lester	CMD 14-H2.46
Greenpeace Canada	CMD 14-H2.47 CMD 14-H2.47A
Corine Psarrou-Rae	CMD 14-H2.48
City of Pickering	CMD 14-H2.49
David Collacutt	CMD 14-H2.50
Jacquie Allen	CMD 14-H2.51
David Skripac	CMD 14-H2.52
Canadian Coalition for Nuclear Responsibility	CMD 14-H2.53 CMD 14-H2.53A CMD 14-H2.53B
A.J. Kehoe	CMD 14-H2.54
Ad Hoc Committee Against Industrial Nuclear Facilities in Ontario and Canada	CMD 14-H2.55
Louissette Lanteigne	CMD 14-H2.56