



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 Renew the Pickering Nuclear
Generating Station A Operating Licence

Public Hearing
Dates

February 17, 2010 and May 21, 2010

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Introduction

1. Ontario Power Generation Inc. (OPG) has applied to the Canadian Nuclear Safety Commission¹ (CNSC) for the renewal of the Nuclear Power Reactor Operating Licence for the Pickering Nuclear Generating Station A (PNGS-A) located in the city of Pickering, Ontario. The current operating licence PROL 04.15/2010 expires on June 30, 2010. OPG has applied for the renewal of this licence for a period of five years.
2. The nuclear facility consists of four CANDU pressurized heavy water reactors and their associated equipment. Two reactors (units 2 and 3) are not operating. They were defueled in 2008 and are currently being placed in a safe storage state until the eventual decommissioning of the Pickering NGS-A and Pickering NGS-B sites. Each of the two operating reactors (units 1 and 4) has a nominal electrical output of 515 megawatts (MW). Units 1 and 4 are operating, with numerous improvements to safety system components, after a return to service in 2005 and 2003 respectively. Pickering NGS-A shares the common vacuum building and parts of the emergency coolant injection system with the Pickering NGS-B, where four units are currently operating.
3. As part of the continuous improvements in CNSC's regulatory process, CNSC staff has reviewed the submitted documents applying a new safety and control framework that includes fourteen safety and control areas, compared to the previous nine safety areas.

Issues

4. 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 OPG is qualified to carry on the activity that the licence would authorize; and
 - b) if, in carrying on that activity, OPG 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

5. The Commission, in making its decision, considered information presented for a public hearing held on February 17, 2010 in Ottawa, Ontario and on May 21, 2010 in Pickering, Ontario. The public hearing was conducted in accordance with the *Canadian*

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

*Nuclear Safety Commission Rules of Procedure*³. During the public hearing, the Commission considered written submissions and heard oral presentations from CNSC staff (CMD 10-H6, CMD 10-H6.A, CMD 10-H6.B, CMD 10-H6.C, CMD 10-H6.D and CMD 10-H6.E) and OPG (CMD 10-H6.1, CMD 10-H6.1A, CMD 10-H6.1B, CMD 10-H6.1C, CMD 10-H6.1D and CMD 10-H6.1E). The Commission also considered oral and written submissions from 34 intervenors.

Decision

6. Based on its consideration of the matter, as described in more detail in the following sections of this *Summary Record of Proceedings*, the Commission concludes that OPG is qualified to carry on the activity that the licence will authorize. The Commission is of the opinion that OPG, 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 Ontario Power Generation's Nuclear Power Reactor Operating Licence for its Pickering Nuclear Generating Station A (NGS-A) located in the city of Pickering, Ontario. The renewed licence, PROL 04.00/2013, is valid from July 1, 2010 to June 30, 2013.

7. The Commission includes in the licence the conditions as recommended by CNSC staff and set out in the draft licence attached to CMD 10-H6.C and CMD 10-H6.E. The Commission approves the proposed *Licence Conditions Handbook* (LCH) as set out in the CMD 10-H6.C and CMD 10-H6.E.
8. With this decision, the Commission requests that OPG prepare yearly reports on their activities regarding fish impingement. The reports should include results of conducted studies, efficiency of applied mitigation measures and all other relevant data, and should be presented at public proceedings of the Commission by the end of each calendar year. The Commission expects the first of the reports to be presented by December 2010.
9. The Commission exempts OPG from the requirement to conduct leak tests on the sealed sources of Cobalt-60 produced by Pickering NGS-B, as specified in Section 18(2)(d) of the *Nuclear Substances and Radiation Devices Regulations*⁴, having accepted OPG's alternative provisions for their safe storage.
10. The Commission directs OPG to prepare, by the end of this licence period, the merging of licences for Pickering NGS-A and Pickering NGS-B. The Commission

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

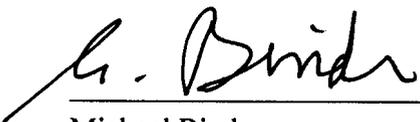
⁴ Statutory Orders and Regulations, SOR/2000-207

acknowledges the explanation by OPG regarding the end-of-life of the Pickering stations and dependence of functioning of Pickering NGS-A and Pickering NGS-B on common facilities and services, and directs OPG to consider and submit a proposal for a one-site licence, focusing on the end-of-life of the facilities, decommissioning (including a comprehensive plan on decommissioning strategies) and ageing management.

11. The Commission directs OPG to continue with improvements of its emergency preparedness response procedures and follow recommendations regarding public alert systems and installation of additional sirens.

Issues and Commission Findings

12. In making its licensing decision, the Commission considered a number of issues relating to OPG'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.
13. The Commission determined that there was no requirement for an Environmental Assessment pursuant to subsection 5(1) of the *Canadian Environmental Assessment Act*⁵ (CEAA). The Commission is satisfied that all applicable requirements of the CEAA have been fulfilled.
14. The detailed 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 29 2010

Date

⁵ S.C. 1992, c. 37.