
1675 Montgomery Park Road, P.O. Box 160, Pickering, Ontario L1V 2R5

June 16, 2023

CD# P-CORR-00531-23266 P

MR. DENIS SAUMURE

Registrar
Commission Registry

Canadian Nuclear Safety Commission
280 Slater Street
Ottawa, Ontario,
K1P 5S9

Dear Mr. Saumure,

**Pickering Nuclear Generating Station – Power Reactor Operating Licence
Amendment Application**

The purpose of this letter is to submit the licence amendment application for the Pickering Nuclear Generating Station (NGS) Power Reactor Operating Licence, PROL 48.01/2028, to amend the current end of commercial operation date of Pickering NGS Units 5 to 8 from December 31, 2024, to December 31, 2026.

OPG intends to operate Pickering NGS Units 5 to 8 until September 30, 2026, as communicated in Reference 1. In order to support the potential electricity demand past September 30, 2026, OPG seeks Canadian Nuclear Safety Commission's authorization to operate Pickering NGS Units 5 to 8 up to and no later than December 31, 2026.

Ontario Power Generation (OPG) is an Ontario-based electricity generation company whose principal business is the generation and sale of electricity in Ontario. OPG head office is located at 700 University Avenue, Toronto, Ontario, M5G 1X6.

The management and control of operation of the OPG Pickering facility and the nuclear substances, prescribed equipment, and associated prescribed information, are the overall responsibility of Mr. Jon Franke, Senior Vice-President of Pickering NGS.

OPG is applying to CNSC to authorize a change in operation dates of Pickering NGS Units 5 to 8 from December 31, 2024, to December 31, 2026. Pickering NGS Units 1 and 4 will be shut down by December 31, 2024, and Units 2 and 3 remain in a safe storage state per the current licence requirements.

OPG also requests CNSC's authorization of a new limit for operation of the Pickering NGS Units 5 to 8 pressure tubes up to 305,000 equivalent full power hours (EFPH) for the lead Pickering NGS unit (Unit 6).

OPG has re-assessed the current Periodic Safety Review, as required under Licence Condition LC 15.1. The re-assessment considered operation of the Pickering NGS Units 5 to 8 until the end of 2026. As required, the Integrated Implementation Plan (IIP) associated with this re-assessed Periodic Safety Review has been submitted to CNSC staff (Reference 2).

The licence amendment application in Attachment 1 describes the key considerations for continued operation of Pickering Units 5 to 8 including details of the Periodic Safety Review re-assessment, the continuing fitness for service of the systems, components and structures, and nuclear safety and plant reliability. It also presents the strengths and achievements in the 14 CNSC Safety and Control Areas (SCA) since the last licence application.

Additionally, the Pickering NGS Units 5 to 8 Fuel Channels, Feeders, and Steam Generators Fitness-for-Service (FFS) Assurance Memo has been completed and submitted to the CNSC (Reference 3). The FFS of major components has been conservatively assessed to 305,000 EFPH and demonstrates FFS assurance for safe operation to the projected EFPH of each unit.

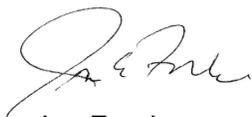
In summary, OPG is requesting authorization from the Canadian Nuclear Safety Commission for a licence amendment to operate Pickering NGS Units 5 to 8 to December 31, 2026, and approval for a new limit for operation of the pressure tubes up to 305,000 EFPH for the lead Pickering unit.

The information provided within the licence amendment application supports these requests and demonstrates that OPG continues to be qualified to carry on the licensed activities and makes adequate provisions to protect the health, safety and security of persons, and the environment. OPG is committed to the safe and reliable operation of the Pickering NGS and continues to meet all the legal requirements of the Nuclear Safety and Control Act and the associated regulations.

Consistent with OPG's approach towards open and transparent public communications, OPG will be posting this application and its supporting documents on its external website www.opg.com.

If you have any questions, please contact Soo Chae, Manager, Pickering Regulatory Affairs at soo.chae@opg.com.

Sincerely,



Jon Franke
Senior Vice President
Pickering Nuclear
Ontario Power Generation Inc.
Attach.

cc: CNSC Director, Pickering Regulatory Program Division
CNSC Director General

- References:
1. OPG Letter, J. Franke to R. Richardson, "Intent to Seek CNSC Authorization to Operate Pickering NGS Units 5-8 Beyond December 31, 2024 to September 30, 2026", December 12, 2022, CD# P-CORR-00531-23091.
 2. OPG Letter, J. Franke to R. Richardson, "Pickering NGS: Periodic Safety Review 2-B (PSR2-B) Submission of Integrated Implementation Plan (IIP)", May 30, 2023, CD# P-CORR-00531-23259.
 3. OPG Letter, J. Franke to R. Richardson, "Pickering NGS - Assurance of Major Components Fitness-for-Service for the Conservative Projected Operating Hours of Pickering Units 5-8", April 21, 2023, CD# NK30-CORR-00531-08660.

ATTACHMENT 1

OPG Letter, J. Franke to D. Saumure, "Pickering Nuclear Generating Station – Power Reactor Operating Licence Amendment Application".

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**Pickering Nuclear Generating Station
Power Reactor Operating Licence Amendment Application**