



CMD 25-H2.34

Date: 2025-05-07

**Written Submission from
McMaster University**

**Mémoire de
l'Université McMaster**

In the matter of the

À l'égard d'

Ontario Power Generation Inc.

Application to renew power reactor
operating licence for the Darlington
Nuclear Generating Station

Ontario Power Generation Inc.

Demande concernant le renouvellement
du permis d'exploitation d'un réacteur de
puissance pour la centrale nucléaire de
Darlington

**Commission Public Hearing
Part-2**

**Audience publique de la Commission
Partie-2**

June 24-26, 2025

24-26 juin 2025

May 7, 2025

Re: Ontario Power Generation licence renewal: Ref. 2025-H-02

Dear CNSC,

On behalf of McMaster University, I am pleased to support Ontario Power Generation's (OPG) licence renewal application for a 30-year term.

McMaster University is the nation's preeminent nuclear research institution. The McMaster campus houses a unique suite of world-class nuclear research facilities anchored by the **McMaster Nuclear Reactor (MNR)** – a multi-purpose research reactor that provides neutrons for scientific research and medical isotopes.

McMaster has a strong tradition of work in environmental science and nuclear energy and is a key resource for Canada's nuclear energy sector. Our nuclear experts perform research, testing and analysis on nuclear power plant components to ensure their continued safe and effective use.

In 2022, the *IESO Pathways to Decarbonization Report* projected that Ontario electricity would need to more than double in size by 2050. There is no path towards net-zero without the reliable baseload of nuclear power.

We believe that Ontario Power Generation's (OPG) license renewal represents a critical step in securing Ontario's future energy needs. As the province faces increasing electricity demand, the continued operation of OPG's nuclear facilities ensures a stable, low-emission baseload supply. This renewal plays a significant role in addressing the projected shortfall and supports Ontario's broader strategy for energy reliability and decarbonization.

Both McMaster University and OPG also have been internationally recognized for the production of radioisotopes for medical, research and industry uses. OPG's recent installation of its Target Delivery System has the potential to meet national and international demand for existing and new radioisotopes. The production of radioisotopes for the diagnosis and treatment of different cancers offers hope and healing to Canadians and patients around the world. McMaster looks forward to future partnerships with OPG and its subsidiaries to the benefit of all Canadians

We look forward to the success of the of OPG's licence renewal and the clean, reliable energy and life-saving isotopes that it will bring to Ontario residents for future generations.

Warmest regards,



Josip Zic
Chief Nuclear Officer,
McMaster University

c.c. Sara Irvine, OPG
Andy Knights, McMaster University
John Preston, McMaster University
Nikki Walkton, McMaster University
Derek Cappon, McMaster University
Martijn Jimmink, McMaster University
Chris Malcolmson, McMaster University
Karin Stephenson, McMaster University